

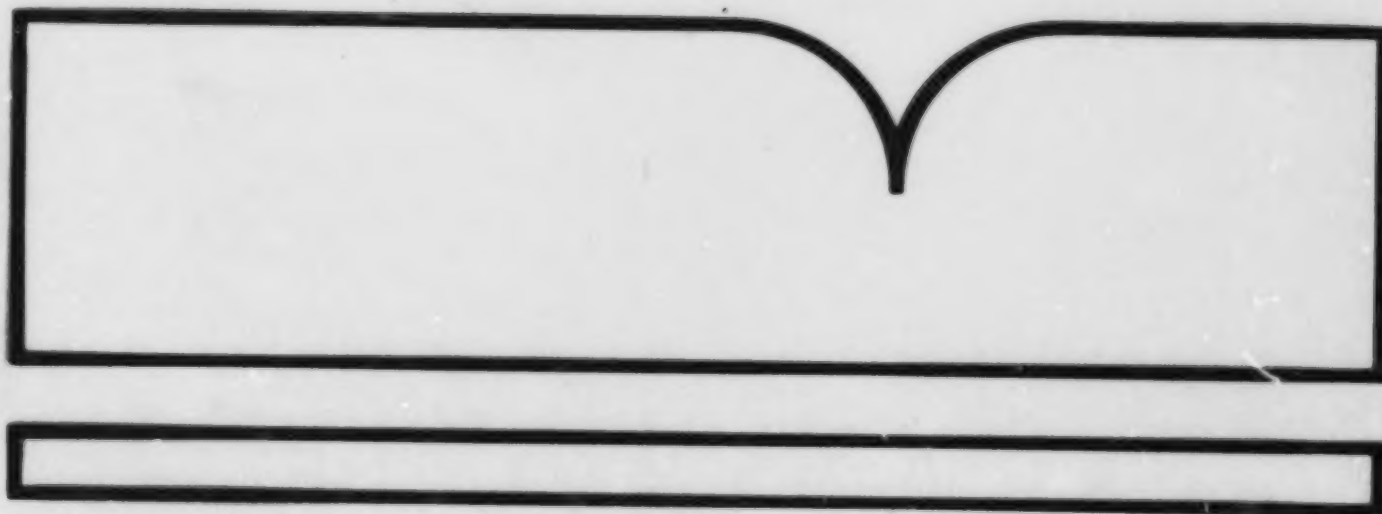
BACT/LAER (Best Available Control
Technology/Lowest Achievable Emission
Rate) Clearinghouse: A Compilation of
Control Technology Determinations: Volume 2B
Appendix G. Source Type Codes 5.0-7.0

PEI Associates, Inc., Cincinnati, OH

Prepared for

Environmental Protection Agency
Research Triangle Park, NC

Jun 85



U.S. Department of Commerce
National Technical Information Service

NTIS

EPA-450/3-85-016 C

BACT/LAER Clearinghouse—

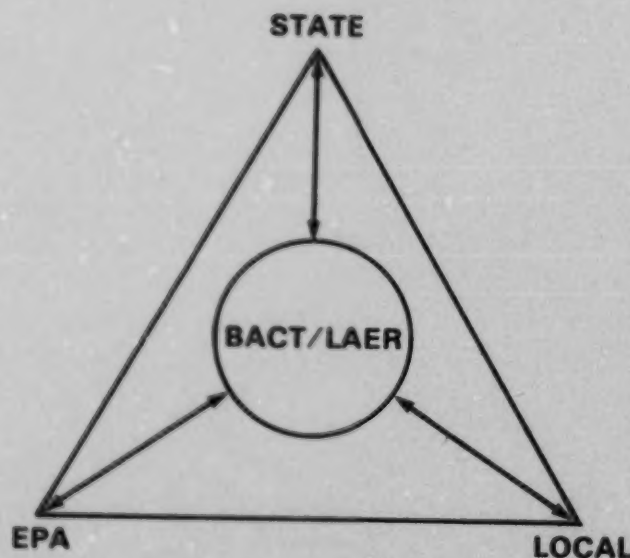
PB85-229680

A Compilation Of Control Technology Determinations

Volume IIB

Appendix G

Source Type Codes 5.0 - 7.0



REPRODUCED BY
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SPRINGFIELD, VA. 22161

Developed As Part Of A Joint Effort
Between The U.S. Environmental Protection Agency
And State And Local Air Pollution Control Agencies

June 1985

TECHNICAL REPORT DATA
(Please read instructions on the reverse before completing)

1. REPORT NO. EPA-450/3-85-016C		3.		D. RECIPIENT'S ACCESSION NO. PB8 5 229680/AS	
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7. AUTHOR(S) David Dunbar, PEI Gary Rust, U.S. EPA				8. PERFORMING ORGANIZATION CODE	
9. PERFORMING ORGANIZATION NAME AND ADDRESS PEI Associates, Inc. Chester Towers 11499 Chester Road Cincinnati, Ohio 45246				9. PERFORMING ORGANIZATION REPORT NO.	
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				13. TYPE OF REPORT AND PERIOD COVERED Task Final	
				14. SPONSORING AGENCY CODE 68A	
15. SUPPLEMENTARY NOTES This report will be supplemented from time to time as new determinations require. Users of this report should contact Regional Offices to get the number of subsequent reports.					
16. ABSTRACT This volume contains the detailed source listings for the determinations submitted in source type code 5.0 through source type code 7.0. The detailed source listing normally contains the following information: source type and size; company name and location; whether determination was BACT or LAER for new or modified source; the person, agency and phone number that made the determination; permit issue date; estimated date of start-up; processes subject to this permit; through-put capacity; pollutant(s) emitted; emission limits; control equipment or process modification; a section for notes; and review status dates.					
17. KEY WORDS AND DOCUMENT ANALYSIS					
a. DESCRIPTORS		b. IDENTIFIERS/OPEN ENDED TERMS		c. COSATI Field/Group	
Air Pollution Industrial Processes Combustion Sources Control Equipment Coal Oil Bark		Nitrogen Oxides Scrubbers Baghouses Electrostatic Precipitators		Air Pollution Control Stationary Sources BACT LAER Sulfur Dioxide Particulate VOC	
18. DISTRIBUTION STATEMENT Unlimited		19. SECURITY CLASS (This Report) Unclassified		21. NO. OF PAGES 482	
		20. SECURITY CLASS (This page) Unclassified		22. PRICE	

BACT/LAER Clearinghouse

Prepared By

Emission Standards And Engineering Division

U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Air Quality Planning and Standards
Research Triangle Park, North Carolina 27711

June 1985

i.a

DISCLAIMER

This report was prepared by PEI Associates, Inc., Cincinnati, Ohio, under Contract No. 68-02-3890, Work Assignment No. 4. It has been reviewed by the Emission Standards and Engineering Division of the Office of Air Quality Planning and Standards, U.S. Environmental Protection Agency and approved for publication. Approval does not signify that the contents necessarily reflect the views and policies of the U.S. Environmental Protection Agency. Mention of trade names or commercial products is not intended to constitute endorsement or recommendation for use. Copies of this report are available from the National Technical Information Service, 5285 Port Royal Road, Springfield, Virginia 22161.

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - SEPARATION 450.00 MBTU/H

COMPANY NAME/SITE LOCATION ARCO PETROLEUM PROD. CO.

CARSON, CA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. (REGION FILE NO.) LA-78-17

DETERMINATION MADE BY EPA REGION IX (AGENCY)

RICK SUGAREK (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/06/79
ESTIMATED DATE OF START-UP--
(415)-974-8056
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

DISTIL. UNIT, REPLACEMENT CRUDE 450.00 MBTU/H MEA*

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

SO2 800.0000 PPM S REFIN. GAS
0.2500 % S FUEL OIL
SULFUR-IN-FUEL

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 04/04/1984

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ID NUMBER CA-0017

SOURCE TYPE CODE 5.1

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - SEPARATION

COMPANY NAME/SITE LOCATION GULF STATES OIL & REFINING CO.

CORPUS CHRISTI, TX

NUECES COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 8452

DETERMINATION MADE BY TEXAS ACB

(AGENCY)

SILVART NEIL

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/04/80

ESTIMATED DATE OF START-UP-- 1-81

(512)-451-5711

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

HEATERS, 4

THROUGHPUT CAPACITY

109.00 MBTU/H

POLLUTANT EMISSIONS

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

SO2

32.0000 T/YR

NONE - LOW SULFUR FUELS

BACT

NOX

19.5000 T/YR

AP42

VOC

3.1000 T/YR

MONITORING & MAINTENANCE

BACT

VAC. COLUMN EJECTOR 16000.00 B/D FEED

VOC

NONE

VAPORS TO FUEL SYSTEM

75.00

100.00

NOTES -----

VACUUM COLUMN VAPORS ROUTED TO FUEL SYSTEM, STEAM CONDENSATE TO DESALTER. CONSIDERED AS A CLOSED SYSTEM.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1993

PAGE G- 368

ID NUMBER TX-0067

SOURCE TYPE CODE 5.1

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - SEPARATION 400.00 H2STU/M

COMPANY NAME/SITE LOCATION THE DOM CHEMICAL CO.

FREEPORT, TX

BRADLORIA COUNTY

DETERMINATION IS BACT
PERMIT NO. (REGION FILE NO.) PSD-TX-405
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BURIAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/03/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

2 VACUUM DISTALL. UNITS, GAS 200.00 H2STU/M EA

POLLUTANT EMISSION LIMITS
EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... BASIS

SO2 0.0276 LB/H2STU
NOX 0.1200 LB/H2STU
LIMIT HAS TO 0.10 GR/DSCF
COM. AIR CONT. BY BURN. DESIGN

NSPS
BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER TX-0019

SOURCE TYPE CODE 5.1

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - CONVERSION

55000.00 LBL/D

COMPANY NAME/SITE LOCATION ASHLAND OIL, INC.

LEACH, KY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. C-82-127 SEE NOTE
 DETERMINATION MADE BY KENTUCKY DAPC
 (AGENCY)

DATE OF PERMIT ISSUANCE-- 09/21/82
 ESTIMATED DATE OF START-UP-- 1983
 (502)-584-3392
 (PHONE)

BILL DILLS
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT
 TO THIS PERMIT

THROUGHPUT CAPACITY 800.00 HHBTU/H
 CRACKER, REDUCED CRUDE W/2 FB CW

POLLUTANT EMISSION LIMITS
 EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION

... 4 BASIS
 ... PCT EFF

PM	68.0000 LB/H	298.0000 T/YR	FABRIC FILTER	LAER
CO	300.0000 PPM	2234.0000 T/YR	AFTERSURNER	99.70 BACT
SO2	250.0000 PPM	4260.0000 T/YR	DRY LIME INJ.	98.70 LAER
NOX	0.2000 LB/H/STU	713.0000 T/YR	PROCESS CHANGE	92.90 BACT
VOC	65.0000 T/YR			LAER 66.20

NOTES

NOTE -- C-82-127 WAS NOT A NSR/PSD PERMIT. IT MODIFIED FACILITIES BEING CONSTRUCTED UNDER PERMIT C-80-127 ISSUED 12/01/80 WNIC
 H WAS BOTH NSR & PSD.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 370

ID NUMBER KY-0026

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983 02/13/1984
 SOURCE TYPE CODE 5.2

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - CONVERSION

COMPANY NAME/SITE LOCATION CHAMPLIN PETROLEUM CO.

WILMINGTON, CA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. LA-79-05

DETERMINATION MADE BY EPA REGION IX

(AGENCY)

DATE OF PERMIT ISSUANCE-- 03/24/80

ESTIMATED DATE OF START-UP--

(415)-974-8213

(PHONE)

LARRY BOWERMAN

(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

FCC UNIT

30000.00 BBL/D

SO2

64.0000 LB/H 24 AV

56.0000 LB/H 24H AV

SULFUR SCAVENGING ZEOLITE CATALYST

DESULFURIZATION OF FEED TO 0.2% S

ALKYLATION UNIT, HYDROFLUORIC A*

6500.00 BBL/D

SO2

230.0000 MG/DSCM H2S

0.1000 GR/DSCF

SULFUR IN FUEL

CATALYTIC POLYMERIZATION UNIT

3500.00 BBL/D

SO2

230.0000 MG/DSCM H2S

0.1000 GR/DSCF

SULFUR IN FUEL

NOTES

0.2% S FEED. -- FLUIDIZED CATALYTIC CRACKING UNIT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983 04/04/1984

ID NUMBER CA-0016

SOURCE TYPE CODE 5.2

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - CONVERSION 22.50 MBSL/D

COMPANY NAME/SITE LOCATION CHAMPLIN PETROLEUM CO.
UP RIVER ROAD/SOUTHERN CORPUS CHRISTI, TX NUECES COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-400
DETERMINATION MADE BY EPA REGION VI (AGENCY)
TOM DIGGS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 11/13/81
ESTIMATED DATE OF START-UP-- (214)-767-1554 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COCKER HEATER	270.00 MMBTU/H	NOX SO2	0.1200 LB/MMBTU LOW NOX BURN. & EXCESS AIR 0.0290 LB/MMBTU 0.1 GR/DSCF H2S IN FUEL GAS	BACT NSPS
HEATER, KEROSENE HYDROTREATER C*	24.00 MMBTU/H	NOX SO2	0.1200 LB/MMBTU LOW NOX BURN. & EXCESS AIR 0.0330 LB/MMBTU 0.1 GR/DSCF H2S IN FUEL GAS	BACT NSPS
HEATER, KEROSENE HYDROTREATER R*	25.00 MMBTU/H	NOX SO2	0.1200 LB/MMBTU LOW NOX BURN. & EXCESS AIR 0.0320 LB/MMBTU 0.1 GR/DSCF H2S IN FUEL GAS	BACT NSPS
HEATER, MIXED DIST. HYDROTREAT*	49.00 MMBTU/H	NOX SO2	0.1200 LB/MMBTU LOW NOX BURN. & EXCESS AIR 0.0310 LB/MMBTU 0.1 GR/DSCF H2S IN FUEL GAS	BACT NSPS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER TX-0016

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
SOURCE TYPE CODE 5.2

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE

PETROLEUM REFINING - CONVERSION

6100.00 BBL/D

COMPANY NAME/SITE LOCATION CHEVRON

RICHMOND, CA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 27803

DETERMINATION MADE BY

BAY AREA AQMD
(AGENCY)

JOHN SKANSON
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/06/81
ESTIMATED DATE OF START-UP-- 1983
(415)-771-6000
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

FCC

61000.00 BPD

POLLUTANT EMISSION LIMITS
EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

PH

10.0000 LB/H
240.0000 LB/D

2 PARALLEL ESP'S

94.00

NOTES -----

ESP COST \$9600000. FILE A 350-009

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/19/1984

ID NUMBER CA-0045B

SOURCE TYPE CODE 5.2

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE

PETROLEUM REFINING - CONVERSION

45.00 MBPSD

COMPANY NAME/SITE LOCATION

EXXON CO., USA/BAYWAY REFIN.
1400 PARK AVENUE

LINDEN, NJ 07036

UNION COUNTY

DETERMINATION IS B/L

PERMIT NO.

DETERMINATION MADE BY

EPA REGION II
(AGENCY)

LARRY KARAS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/27/80
ESTIMATED DATE OF START-UP--
(212)-264-9538
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

PROCESS HEATER

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

LAER

BACT

BACT

HYDROFINER POWER FORMER

TANKAGE

FUGITIVE EMISSIONS

NOTES

A NEW 45 MB/SD CATALYTIC REFORMING UNIT (POWER FORMER) WILL UPGRADE OCTANE LEVELS OF VIRGIN AND ICH NAPHTHAS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

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ID NUMBER NJ-0001

SOURCE TYPE CODE 5.2

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - CONVERSION

COMPANY NAME/SITE LOCATION KOCH REFINING CO.

CORPUS CHRISTI, TX

NUECES COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 9398

DETERMINATION MADE BY TEXAS ACB (AGENCY)

KAREN NEUMANN (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/18/84
ESTIMATED DATE OF START-UP-- 1985
(512)-451-5711
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

BOILER, CONVERTED CO

THROUGHPUT CAPACITY

212.50 HHBTU/H

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

BACT

NOX 0.1200 LB/HHBTU
LOW NOX BURNERS

SO2 0.1000 GR H2S/DSCF FUEL CONTENT

CO 35.0000 LB/HHSCF
PH 5.0000 LB/HHSCF
VOC 2.6000 LB/HHSCF
RESTRICT S CONTENT OF REFIN. FUEL GAS

B/N

NOTE

NOTE

NOTE

BACT

SO2 0.1000 GR H2S/DSCF FUEL CONTENT
RESTRICT S CONTENT OF REFIN. FUEL GAS

NOX 140.0000 LB/HHSCF
CO 35.0000 LB/HHSCF
PH 5.0000 LB/HHSCF
VOC 2.6000 LB/HHSCF

NOTE

NOTE

NOTE

NOTE

BACT

SO2 0.1000 GR H2S/DSCF FUEL CONTENT
RESTRICT S CONTENT OF REFIN. FUEL GAS

NOX 140.0000 LB/HHSCF
CO 35.0000 LB/HHSCF
PH 5.0000 LB/HHSCF
VOC 2.6000 LB/HHSCF

B/N

NOTE

NOTE

NOTE

NOTE

B/N

BOILER, CO & FCCU FLUE GAS SCRUB 254.90 HHBTU/H

CO 1.1900 LB/HHBTU
500.0000 PPMV IN EXILER STACK
CO PROMOTER CATALYST

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS:

INITIAL REVIEW POST STARTUP

PAGE 6- 375

ID NUMBER TX-0157

SOURCE TYPE CODE 5.2

(CONTINUED) KOCH REFINING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
		SO2	1.2400 LB/HRTU EDUCTOR TYPE FLUE GAS SCRUBBER	BACT 90.00
		PM	0.2200 LB/HRTU EDUCTOR TYPE FLUE GAS SCRUBBER	BACT 90.00
		NOX	1.7600 LB/HRTU LOW NOX BURNERS	BACT 90.00
		VOC	1.6000 EE-3 LB/HRTU	NOTE
		NH3	9.0000 EE-3 LB/HRTU	NOTE
FUGITIVES		VOC	13.3500 LB/HBL FCCU FEED FUGITIVE MONITORING & MAINTENANCE PROGRAM	B/S 75.00

NOTES -----
ANOTHER CONTACT - ED KASPRZYK, REGION 5 - CORPUS CHRISTI OFFICE, (512)-289-1616. NOTE - THESE POLLUTANTS ARE UNREGULATED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
PAGE G- 376
ID NUMBER TX-0157
REVIEW STATUS:
INITIAL REVIEW POST STARTUP
SOURCE TYPE CODE 5.2

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE

PETROLEUM REFINING - CONVERSION

1480.00 BPSD

COMPANY NAME/SITE LOCATION TEXAS OLEFINS CO.

, TX

HARRIS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 9348

TEXAS ACB
(AGENCY)

KAREN NEUMANN
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/23/83
ESTIMATED DATE OF START-UP-- 1984
(512)-451-5711
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

... & BASIS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

POLYMERIZATION UNIT

1460.00 BPSD

VOC 54.8200 T/YR

SEE NOTES

NOX

8.4700 T/YR

LOW NOX BURNERS

CO

1.2600 T/YR

PH 0.3500 T/YR

BACT

BACT

BACT

NOTES

SIC = 2869. VOC CONTROL PROVIDED BY VAPOR RECOVERY UNIT ON LOADING OPERATIONS/ DIRECTED MAINTENANCE ON VALVES, PUMPS, ETC./ FL
ARES FOR UPSET EMISSIONS/ FLOATING ROOFS WITH SECONDARY SEALS ON TANKS.

(*) INDICATES DATUM HAS TRUNCATED FOR THIS TABLE.

PAGE 6- 377

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 05/04/1994

ID NUMBER TX-0140

SOURCE TYPE CODE 5.2

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - CONVERSION 20000.00 MBL/D

COMPANY NAME/SITE LOCATION UNITED REFINING CO.

WARREN, PA

WARREN COUNTY

DETERMINATION IS B/L FOR A MODIFIED SOURCE.

PERMIT NO. 78PA14

DETERMINATION MADE BY EPA REGION III

(AGENCY)

VERNON BUTLER

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/25/80

ESTIMATED DATE OF START-UP-- 1980

(215)-597-2711

(PHONE)

PROCESSES SUBJECT

TO THIS PERMIT

FCC UNIT

THROUGHPUT

CAPACITY

POLLUTANT

EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS

... PCT EFF

S02 350.0000 LB/H

0.65% S FUEL OIL

BACT

REFORMER HEATER

S02 65.0000 LB/H

1% S IN FUEL OIL

BACT

CLAUS PLANT

S02

BACT

REBOILER

S02 24.0000 LB/H

1% S FUEL OIL

NSPS

NOTES

S02 EMISSIONS FROM FLUID CATALYTIC CRACKER UNIT, REFORMER HEATER, AND REBOILER IMPACT ON NON-ATTAINMENT AREA

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1993

PAGE 6- 378

ID NUMBER PA-0016

SOURCE TYPE CODE 5.2

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - TREATING 9.00 MHCFO

COMPANY NAME/SITE LOCATION COLLET VENTURES, INC.

COPELAND, AL

DETERMINATION IS
PERMIT NO. 106-0002-X001-X005
DETERMINATION MADE BY ALABAMA DEM
(AGENCY)

GEORGE SULLIVAN
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/12/84
ESTIMATED DATE OF START-UP-- 1985
(205)-271-7861
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
MERC SULFUR REC PLANT	114.00 LT/D	SO2	0.0300 LB/LB OF INLET SULFUR TAIL-GAS INCINERATOR	BACT 98.50
ENGINE, GAS-FIRED, 2 EA	1072.00 HP	NOX	5.0000 G/HP-H CATALYTIC CONVERTERS	BACT
ENGINE, COMPRESSOR, 2 EA	412.00 HP	NOX	5.0000 G/HP-H CATALYTIC CONVERTERS	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 379

REVIEW STATUS: INITIAL REVIEW POST STARTUP

ID NUMBER AL-0024

SOURCE TYPE CODE 5.3

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE

PETROLEUM REFINING - TREATING

COMPANY NAME/SITE LOCATION

ENDEVCO, INC.
ST. HWY 134

FOUKE, AR

MILLER COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. AR-2404-1

DETERMINATION MADE BY

EPA REGION VI
(AGENCY)

TOM DIGGS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/03/81
ESTIMATED DATE OF START-UP-- 1980
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

DIETHANOLAMINE RECONCENTRATOR

60000.00 BTU/H

SO2

0.1000 LB/H

FIRING OF NAT. GAS

BACT

TRIETHYLENE GLYCOL

60000.00 BTU/H

SO2

0.1000 LB/H

FIRING OF NAT. GAS

BACT

INCINERATION

SO2

460.0000 LB/H

NO CONTROL, USED TO CONTROL H2S

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER AR-0003

SOURCE TYPE CODE 5.3

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - TREATING 2.00 MMSCFD

COMPANY NAME/SITE LOCATION OIL INTERNATIONAL LTD

OILHONT, MT

TOOLE COUNTY

DETERMINATION IS PERMIT NO.

DETERMINATION MADE BY STATE OF MONTANA (AGENCY)

HARRY KELTZ (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/10/83
ESTIMATED DATE OF START-UP-- (406)-449-3454
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

INCINERATOR

THROUGHPUT CAPACITY

2.00 MMSCFD

POLLUTANT EMITTED

SO2

57.0000 LB/H
249.0000 T/YR

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

BACT

0.00

INCINERATION

NOTES

50 WEEK/YR OPERATION - PLANT IS IN BASICALLY SAME LOCATION AS OLD PERMIT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - TREATING

COMPANY NAME/SITE LOCATION PACIFIC REFINING CORP.

HERCULES, CA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 29180

DETERMINATION MADE BY BAY AREA AQHD

(AGENCY)

LEONARD CLAYTON

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/20/83

ESTIMATED DATE OF START-UP-- 1986

(415)-771-6000

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

FUEL HANDLING, REFINERY FUEL GAS 500000.00 SCF/H

SO2

50.0000 PPM H2S IN FUEL GAS

BACT

FURNACE, REFORMING

NOX

20.0000 PPM AT 3% O2

BACT

SCR & NH3 INJECTION

85.00

NOTES

SCR = SELECTIVE CATALYTIC REDUCTION

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/19/1984

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ID NUMBER CA-0056

SOURCE TYPE CODE 5.3

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE
PETROLEUM REFINING - TREATING
5.00 HP

COMPANY NAME/SITE LOCATION
TOSCO CORP.
MARTINEZ, CA

DETERMINATION IS DACT FOR A NEW SOURCE.
PERMIT NO. 27769
DETERMINATION MADE BY
BAY AREA AQMD
(AGENCY)

JIM KAPA
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/19/82
ESTIMATED DATE OF START-UP-- 1983
(415)-771-6000
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT
CENTRIFUGAL PUMPS

THROUGHPUT
CAPACITY
5.00 HP

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... A BASIS
... PCT EFF

VOC 500.0000 PPM
DOUBLE MECH. SEAL W/HEAVY SEAL OIL

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
SOURCE TYPE CODE 5.3

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

PETROLEUM REFINING - FEEDSTOCK

10.80 MMGAL

COMPANY NAME/SITE LOCATION AHOCO OIL CO.

WHITING, IN

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. PC (45) 1479
DETERMINATION MADE BY INDIANA APCD
(AGENCY)

DATE OF PERMIT ISSUANCE-- 02/27/81
ESTIMATED DATE OF START-UP--
(317)-633-0647
(PHONE)

KEN KEARNEY
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

STORAGE TANKS, GASOLINE

5.40 MMGAL

VOC

WELDED TANKS & INT FLOAT ROOFS

LAER

NOTES -----
2 GASOLINE STORAGE TANKS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 06/01/1983

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ID NUMBER IN-0010

SOURCE TYPE CODE 5.4

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - FEEDSTOCK

COMPANY NAME/SITE LOCATION ARCO PIPELINE CO.
FT. HIFFLIN TERMINAL

TINICUM TOWNSHIP, PA

DELAWARE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 79PA24
DETERMINATION MADE BY

EPA REGION III
(AGENCY)

BOB BLASZCZAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/18/80
ESTIMATED DATE OF START-UP-- 1981
(215)-597-8186
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

STORAGE TANKS NOS. 1

10.00 MBBL

VOC

0.2700 LB/H

INTERNAL FLOATING ROOFS

BACT

STORAGE TANKS NOS. 2, 13, 15

100.00 MBBL

VOC

1.6500 LB/H

INTERNAL FLOATING ROOFS

BACT

STORAGE TANKS NOS. 4, 12

150.00 MBBL

VOC

2.1600 LB/H

INTERNAL FLOATING ROOFS

BACT

STORAGE TANKS NOS. 9, 10

100.00 MBBL

VOC

1.3200 LB/H

INTERNAL FLOATING ROOFS

BACT

STORAGE TANKS NOS. 11, 14

100.00 MBBL

VOC

1.6100 LB/H

INTERNAL FLOATING ROOFS

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

ID NUMBER F1-C010

SOURCE TYPE CODE 5.4

APPENDIX -- DETAILED SOURCE LISTINGS

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - FEEDSTOCK

COMPANY NAME/SITE LOCATION VENTECH REFIN.
JCT. HWY 190 & RT. 105

KROTZ SPRINGS, LA 70750

ST. LANDRY PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-278A
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

DATE OF PERMIT ISSUANCE-- 02/13/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

TOM DIGGS
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TANKS, 2EA	120000.00 EBL	VOC	0.8700 LB/H DOUBLE SEALS	BACT
TANKS, 6EA	55000.00 EBL	VOC	0.0200 LB/H DOUBLE SEALS	BACT
TANK	25000.00 EBL	VOC	0.3500 LB/H DOUBLE SEALS	BACT
BARGE LOAD/UNLOAD		VOC	3.0200 LB/H VAPOR COLLECTION & INCIN. SYS	BACT

(*) INDICATES DATUM HAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION ALLIED MATERIALS CORP.

RT. 66

STROUD, OK

LINCOLN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. (REGION FILE NO.) PSD-OK-344

DETERMINATION MADE BY EPA REGION VI

(AGENCY)

BILL TAYLOR
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/30/81
ESTIMATED DATE OF START-UP-- 1981
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

WASTE INCINERATOR/HEAT RECOVERY* 56.00 M³STU/H

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

S02

4.4300 LB/HMBTU

NONE APPLICABLE

BACT

NOTES -----

WASTE INCIN./HEAT RECOVERY UNIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER OK-0007

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION AMERICAN PETROFINA CO. OF TEXAS

, TX

JEFFERSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. SEE NOTE
DETERMINATION MADE BY

TEXAS ACB
(AGENCY)

STUART KEIL
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/21/83
ESTIMATED DATE OF START-UP-- 1984
(512)-451-5711
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

COMBUSTION UNITS

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

NOX 0.1200 LB/HMBTU GAS
0.3000 LB/HMBTU LIQUID
STAGED COMBUSTION

NEW & EXISTING SRU'S

NSPS

S02 250.0000 PPM
H2S SCOT TAIL GAS CLEAN-UP
NOTE #2
FUG. MONITOR & MAINTEN. FOR H2S PROCESS LEAKS

NOTES
NOTE -- PERMIT NO. C-9193, 9194, 9195, 9196
NOTE #2 -- MINIMIZE FUGITIVES

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 05/04/1984

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ID NUMBER TX-0127

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 130.00 MBPSO

COMPANY NAME/SITE LOCATION AMOCO 5TH AVE. S. TEXAS CITY TEXAS CITY, TX GALVESTON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. PERMIT NO. (REGION FILE NO.) P50-TX-402 DATE OF PERMIT ISSUANCE-- 12/08/81 ESTIMATED DATE OF START-UP-- (214)-767-1594 (PHONE)

DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS, 12 EA	144.00 MBTU/H	NOX	0.1200 LB/MBTU	LOW NOX BURNERS	BACT
		SO2	0.0300 LB/MBTU	GAS FIRED	NSPS
SULFUR RECOVERY UNIT	1000.00 LT/D SULFUR	NOX	13.0000 LB/H	EFFICIENT OPERATION	BACT
		SO2	250.0000 PPH	3-STAGE CLAUS UNIT	NSPS 99.90
SRU FLARE	6.60 MBTU/H	NOX	0.1200 LB/MBTU	EFFICIENT OPERATION	BACT
		SO2	0.0300 LB/MBTU	GAS FIRED	NSPS
HYDROTREATER FLARES, 2	6.10 MBTU/H EA	NOX	0.1200 LB/MBTU	EFFICIENT OPERATION	BACT
		SO2	0.0300 LB/MBTU	GAS FIRED	BACT

NOTES -----
H2S LIMITED TO 0.1 GRAIN/DSCF.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
SOURCE TYPE CODE 5.5

ID NUMBER TX-0020

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 50000.00 BPSD

COMPANY NAME/SITE LOCATION AMOCO TEXAS REFINING CO. 2401 5TH AVENUE SOUTH TEXAS CITY, TX 77490

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. TX-101
 DETERMINATION MADE BY EPA REGION VI (AGENCY)
 JOHN BURYAK (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE--
 ESTIMATED DATE OF START-UP--
 (214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... BASIS ... PCT EFF
FURNACE, EXISTING PREHEAT		NOX	56.2000 LB/H LOW NOX/HIGH COMBUST EFF BURN	BACT
FURNACE, EXISTING REHEAT		NOX	63.2000 LB/H LOW NOX/HIGH COMBUST EFF BURN	BACT
FURNACE, EXISTING REHEAT		NOX	76.5000 LB/H LOW NOX/HIGH COMBUST EFF BURN	BACT
FURNACE, EXISTING HOT OIL		NOX	47.9000 LB/H LOW NOX/HIGH COMBUST EFF BURN	BACT
FURNACE, NEW DESULFURIZING		NOX	21.2000 LB/H LOW NOX/HIGH COMBUST EFF BURN	BACT

NOTES -----
 MODIFIED GASOLINE REFORMER TO PRODUCE GASOLINE OF LOW LEAD CONTENT. INCREASED REFORMER CHARGE RATE FROM 49000 TO 50000 BBL/STR
 EAM DAY.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 ID NUMBER TX-0067
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 SOURCE TYPE CODE 5.5
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE
PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION
ARCO ALASKA, INC.
KUPARUK FIELD

NEAR PRUDHOE BAY, AK

DETERMINATION IS BACT
PERMIT NO. 8436-AA011
DETERMINATION MADE BY

ALASKA DEC
(AGENCY)

DAVE ESTES
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/11/85
ESTIMATED DATE OF START-UP-- 1986
(907)-465-2666
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT
TURBINE, GAS

THROUGHPUT
CAPACITY

10.00 MHP TOTAL

POLLUTANT
EMITTED

... & BASIS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

NOX	100.0000 PPM AT 15% O2, DRY	BACT
VE	LO NOX BURNERS	BACT
SO2	10.0000 % OPACITY	BACT
	20.0000 PPM H2S IN FUEL GAS	BACT
NOX	0.0800 LB/MMBTU	BACT
VE	LO NOX BURNERS	BACT
SO2	10.0000 % OPACITY	BACT
	20.0000 PPM H2S IN FUEL GAS	BACT

PROCESS HEATERS

275.00 MMBTU/H TOT*

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
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REVIEW STATUS:
INITIAL REVIEW POST STARTUP
SOURCE TYPE CODE 5.5

ID NUMBER AK-0010

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION CALCASIEU REFIN.

CALCASIEU, LA

CALCASIEU PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-293
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/22/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT
HEATERS, 3 EA

THROUGHPUT
CAPACITY
160.00 MMSTU/H

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

NOX

0.1100 LB/MMSTU
LOW NOX BURNERS

BACT
35.00

INCLIN.

2.00 MMSTU/H

NOX

0.1000 LB/MMSTU
LOW NOX BURNERS

BACT
35.00

NOTES
THREE HEATERS AND ONE INCINERATOR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER LA-0019

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 30000.00 BPSD

COMPANY NAME/SITE LOCATION CAROLINA REFINING & DIST SAVANNAH, GA CHATHAM COUNTY
STATE WAY 21

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 09/10/80
PERMIT NO. GA 063 ESTIMATED DATE OF START-UP-- 1981
DETERMINATION MADE BY GEORGIA EPD (404)-656-6900
(AGENCY) (PHONE)
BILL MITCHELL
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT THROUGHPUT EMISSION LIMITS ... & BASIS
TO THIS PERMIT CAPACITY POLLUTANT EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

PROCESS HEATERS 594.00 HHBTU/H SO2 CLAUSS-STRETFORD NSPS
NOX 518.1000 T/YR 98.00
VOC 3326.2000 T/YR GOOD OPERATION PRACTICES BACT
GOOD OPERATION PRACTICES

NOTES -----
OPERATION PROHIBITED BY STATE AUTHORITY

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993
ID NUMBER GA-0001
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SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION CHAMPLIN PETROLEUM CO.
1200 SMITH ST., SUITE 1900

HOUSTON, TX 77002

NUECES COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. TX-337

DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/03/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY 392.00 MBTU/H
PLATFORM CHARGE HEATERS, 3

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, PLATFORMER DEPENTANIZER	25.20 MBTU/H	SO2	9.9000 LB/H REFIN. GAS 0.0250 LB/MBTU REFIN. GAS	NSPS
		NOX	TRACE H2S 47.0000 LB/H REFIN. GAS 0.1200 LB/MBTU REFIN. GAS	BACT
		SO2	112.7000 LB/H G/O 0.7600 LB/MBTU G/O	NSPS
		NOX	TRACE H2S 67.3000 LB/H G/O 0.1700 LB/MBTU G/O	BACT
HEATER, PLATFORMER DEPENTANIZER	25.20 MBTU/H	SO2	AFR CONTROLS, UNS 0.6000 LB/H REFIN. GAS 0.0250 LB/MBTU REFIN. GAS	NSPS
		NOX	TRACE H2S 3.0000 LB/H REFIN. GAS 0.1200 LB/MBTU REFIN. GAS	NSPS
		SO2	17.5000 LB/H G/O 0.7600 LB/MBTU G/O	NSPS
		NOX	TRACE H2S 4.4000 LB/H G/O 0.1700 LB/MBTU G/O	BACT
HEATER, PLATFORMER DEPENTANIZER	25.20 MBTU/H	SO2	AFR CONTROLS, UNS 0.6000 LB/H REFIN. GAS 0.0250 LB/MBTU REFIN. GAS	NSPS
		NOX	TRACE H2S 3.0000 LB/H REFIN. GAS 0.1200 LB/MBTU REFIN. GAS	NSPS
		SO2	17.5000 LB/H G/O 0.7600 LB/MBTU G/O	NSPS
		NOX	TRACE H2S 4.4000 LB/H G/O 0.1700 LB/MBTU G/O	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER TX-0063

SOURCE TYPE CODE 5.5

(CONTINUED) CHAMPLIN PETROLEUM CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, PLATFORM AROMATIC	20.30 MBTU/H			
		SO2	0.5000 LB/H REFIN. GAS 0.0250 LB/MBTU REFIN. GAS TRACE H2S	NSPS
		NOX	2.4000 LB/H REFIN. GAS 0.1200 LB/MBTU REFIN. GAS	BACT
		SO2	AFR CONTROL, LNB 13.8000 LB/H G/O 0.7600 LB/MBTU G/O	NSPS
		NOX	TRACE H2S 3.5000 LB/H G/O 0.1700 LB/MBTU G/O	BACT
HEATER, HYDROTREATER CHARGE	47.60 MBTU/H			
		SO2	1.2000 LB/H REFIN. GAS 0.0250 LB/MBTU REFIN. GAS TRACE H2S	NSPS
		NOX	5.7000 LB/H REFIN. GAS 0.1200 LB/MBTU REFIN. GAS	BACT
		SO2	AFR CONTROL, LNB 33.0000 LB/H G/O 0.7600 LB/MBTU G/O	NSPS
		NOX	TRACE H2S 8.2000 LB/H G/O 0.1700 LB/MBTU G/O	BACT
REBOILER, HYDROTREATER STRIPPER	31.40 MBTU/H			
		SO2	0.8000 LB/H REFIN. GAS 0.0250 LB/MBTU REFIN. GAS TRACE H2S	NSPS
		NOX	3.8000 LB/H REFIN. GAS 0.1200 LB/MBTU REFIN. GAS	BACT
		SO2	AFR CONTROLS, LNB 2.2000 LB/H G/O 0.7600 LB/MBTU G/O	NSPS
		NOX	TRACE H2S 5.4000 LB/H G/O 0.1700 LB/MBTU G/O	BACT
BOILERS, 3 (FUEL GAS ONLY)	47.00 MBTU/H EA			
			AFR CONTROLS, LNB	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER TX-0063

SOURCE TYPE CODE 5.5

(CONTINUED) CHAMPLIN PETROLEUM CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
EMERGENCY FLARE	16.00 SCFH	SO2	1.2000 LB/H 0.0250 LB/H/MBTU TRACE H2S	NSPS
		NOX	5.6000 LB/H 0.1200 LB/H/MBTU AFR CONTROL, UNB	BACT
		SO2	0.1000 LB/H NONE	BACT
		NOX	0.1000 LB/H STEAM INJECTION	BACT

NOTES

FUEL OIL'S CONTENT NOT SPECIFIED. PERMITTEE IS REQUIRED TO SAMPLE & ANALYZE S CONTENT OF FUEL OIL AT LEAST ONCE/DAY TO DETERMINE COMPLIANCE WITH THE ALLOWABLE SO2 EMISSION LIMITS. EMERGENCY FLARE OPERATED ONLY UNDER EMERGENCY CONDITIONS. WHEN PROCESS GASES ARE VENTED TO FLARE FOR MORE THAN 5 MIN. IN ANY 2 HOUR PERIOD, RECORDS SHALL BE KEPT FOR 2 YEARS FOLLOWING SUCH OCCURRENCE. TRACE = <0.10 GR/DSCF. UNB = LOW NOX BURNERS. AFR CONTROLS = AIR/FUEL RATIO CONTROLS. G/O = GAS/OIL MIX.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER TX-0063

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 7000.00 GPCD

COMPANY NAME/SITE LOCATION CHEVRON USA REF. BASCAGOULA, MS JACKSON COUNTY

DETERMINATION IS LAER FOR A MODIFIED SOURCE.
 PERMIT NO. MS 024 DATE OF PERMIT ISSUANCE-- 12/10/80
 DETERMINATION MADE BY MISSISSIPPI DNR ESTIMATED DATE OF START-UP--
 (AGENCY) (601)-354-2550
 (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... BASIS ... PCT EFF
PROCESS EQUIPMENT	16000.00 GPCD	SO2	0.1000 GR/DSCF BEAVON S REM. PROC. TAIL GAS LOW SULFUR	NSPS
		NOX	125.0000 PPM GAS DESIGN	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
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PAGE G- 397 ID NUMBER MS-0007 SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION CHEVRON USA, INC.

RICHMOND, CA

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 27797

DATE OF PERMIT ISSUANCE-- 04/08/82
ESTIMATED DATE OF START-UP-- 1984

DETERMINATION MADE BY BAY AREA AQMD
(AGENCY)

JOHN SWANSON
(AGENCY CONTACT PERSON)

(415)-771-6000
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FURNACE 4	57.00 MBTU/H	NOX	40.0000 PPM NO2 AT 3% O2 ONE SCR UNIT ON FURNACES 4,5,6	
FURNACE #5	18.00 MBTU/H	NOX	40.0000 PPM NO2 AT 3% O2 ONE SCR UNIT ON FURNACES 4,5,6	
FURNACE #6	15.00 MBTU/H	NOX	40.0000 PPM NO2 AT 3% O2 ONE SCR UNIT ON FURNACES 4,5,6	
FURNACE #1	12.50 MBTU/H	NOX	40.0000 PPM NO2 AT 3% O2 ONE SCR UNIT ON FURNACES 1,2,3	
FURNACE #2	15.00 MBTU/H	NOX	40.0000 PPM NO2 AT 3% O2 ONE SCR UNIT ON FURNACES 1,2,3	
FURNACE #3	66.50 MBTU/H	NOX	40.0000 PPM NO2 AT 3% O2 ONE SCR UNIT ON FURNACES 1,2,3	
FURNACE #7	22.00 MBTU/H	NOX	40.0000 PPM NO2 AT 3% O2 ONE SCR UNIT ON FURN. 7,8,9,10	
FURNACE #8	26.00 MBTU/H	NOX	40.0000 PPM NO2 AT 3% O2 ONE SCR UNIT ON FURN. 7,8,9,10	
FURNACE #9	26.00 MBTU/H	NOX	40.0000 PPM NO2 AT 3% O2 ONE SCR UNIT ON FURN. 7,8,9,10	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

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ID NUMBER CA-0045

SOURCE TYPE CODE 5.5

(CONTINUED) CHEVRON USA, INC.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				

FURNACE #10	15.00 MBTU/H	NOX	40.0000 PPM NO2 AT 3% O2 ONE SCR UNIT ON FURN. 7,8,9,10	
		NOX	40.0000 PPM NO2 AT 3% O2 ONE SCR UNIT ON FURN. 7,8,9,10	

NOTES -----
 SCR = SELECTIVE CATALYTIC REDUCTION, FURNACES ARE BURNING REFINERY MAKE GAS OF 1025 BTU/ACF

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
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 ID NUMBER CA-0045
 REVIEW STATUS: 04/01/1983
 INITIAL REVIEW POST STARTUP
 SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION CITIES SERVICE CO.
P.O. BOX 1562

LAKE CHARLES, LA 70602

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. DATE OF PERMIT ISSUANCE-- 01/16/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

EPA REGION VI
(AGENCY)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
REFORMER FURNACE, B-501,502,506*	198.50 MBTU/H	NOX	0.0030 LB/MBTU 37.6000 LB/H	LCH NOX BURNERS & LEA FIRING	BACT
		VOC	0.0030 LB/MBTU 0.6000 LB/H		BACT
REFORMER FURNACE, B-503,504,505*	536.90 MBTU/H	NOX	0.1900 LB/MBTU 101.7000 LB/H	COM. CONT. F. G. 02 METER	BACT
		VOC	0.0030 LB/MBTU 1.5000 LB/H		BACT
C REFORMER, REGEN. VENT		NOX	NONE		
A REFORMER FURNACE, B-102 - 106	93.10 MBTU/H GAS	VOC	0.9000 LB/H 0.0100 MBTU/H		BACT
		VOC	NONE		
		NOX	34.5000 LB/H 0.0400 LB/MBTU		BACT
			NONE		

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER LA-0030

SOURCE TYPE CODE 5.5

(CONTINUED) CITIES SERVICE CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... A BASIS ... PCT EFF
A REFORMER FURNACE, B-201	64.60 MBTU/H	NOX	14.2000 LB/H 0.0003 LB/MBTU	BACT
		VOC	0.2000 LB/H 0.0030 LB/MBTU	BACT
A REFORMER FURNACE, B-202	53.00 MBTU/H	NOX	11.6000 LB/H 0.0003 LB/MBTU	BACT
		VOC	0.2000 LB/H 0.0030 LB/MBTU	BACT
B REFORMER FURNACE, B-401	60.40 MBTU/H	NOX	13.2000 LB/H 0.0003 LB/MBTU	BACT
		VOC	0.2000 LB/H 0.0030 LB/MBTU	BACT
B REFORMER FURNACE, B-406	57.30 MBTU/H	NOX	12.6000 LB/H 0.0003 LB/MBTU	BACT
		VOC	0.2000 LB/H 0.0030 LB/MBTU	BACT
B REFORMER FURNACE, B-402	55.90 MBTU/H	NOX	12.2000 LB/H 0.0003 LB/MBTU	BACT
		VOC	0.2000 LB/H 0.0030 LB/MBTU	BACT
B REFORMER FURNACE, B-403, 404, 4*	330.00 MBTU/H	NOX	50.6000 LB/H 0.2200 LB/MBTU	BACT
		VOC	2.3000 LB/H 0.0030 LB/MBTU	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER LA-0036

REVIEW STATUS: 04/01/1993

INITIAL REVIEW POST STARTUP

SOURCE TYPE CODE 5.5

(CONTINUED) CITIES SERVICE CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION: LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... A BASIS ... PCT EFF
COKER FURNACE, B-101	106.20 MBTU/H	NOX	23.7000 LB/H 0.0030 LB/MBTU NONE	BACT
		VOC	0.3000 LB/H 0.0030 LB/MBTU NONE	BACT
COKER FURNACES, B-201	62.40 MBTU/H	NOX	18.0000 LB/H 0.2200 LB/MBTU NONE	BACT
		VOC	0.2000 LB/H 0.0030 LB/MBTU NONE	BACT
TOPPER FURNACE, B-2C	65.90 MBTU/H	NOX	14.4000 LB/H 0.2200 LB/MBTU NONE	BACT
		VOC	0.2000 LB/H 0.0030 LB/MBTU NONE	BACT
POWER HOUSE BOILER, B-3, B-3B	173.00 MBTU/H GAS	NOX	60.5000 LB/H 0.0050 LB/MBTU NONE	BACT
		VOC	0.9000 LB/H 0.0050 LB/MBTU NONE	BACT
POWER HOUSE BOILER, B-A3, 3C	173.00 MBTU/H	NOX	60.5000 LB/H 0.3500 LB/MBTU NONE	BACT
		VOC	0.9000 LB/H 0.0050 LB/MBTU NONE	BACT
TANKAGE				
REFINERY, MISC. SOURCES		VOC	501.7000 LB/H BACT FOR FUGITIVE HC	BACT
		VOC	291.0000 LB/H BACT FOR FUGITIVE HC	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1993
 SOURCE TYPE CODE 5.5
 ID NUMBER LA-0030

(CONTINUED) CITIES SERVICE CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMPLEX COOLING TOWERS				

VOC	234.4000 LB/H	BACT
		FOR FUGITIVE HC
		BACT

NOTES

REFINERY MODIFICATIONS INCLUDE: INSTALLATION OF NEW "C" REFORMER, REVISION OF REFINERY FUEL BALANCE, INSTALLATION OF AIR PREHE
AT AND FLUE GAS WASTE HEAT BOILERS FOR EMERGENCY CONSERVATION, CRUDE DISTILLATION COLUMN MODIFICATION,
AND CONVERSION OF CONE ROOF TANKS TO INTERNAL FLOATING PANS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

ID NUMBER LA-0038

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION CLARK OIL CO., WOOD RIVER REFIN.
P.O. BOX 7

HARTFORD, IL 62048

MADISON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 61960001
DETERMINATION MADE BY ILLINOIS EPA
(AGENCY)

CHRIS ROMAIN
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/25/81
ESTIMATED DATE OF START-UP-- 1986
(217)-782-2113
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT
PROCESS HEATERS

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

NOX 369.3000 T/YR
LOW NOX BURNERS
SO2 1.0000 LB/HRTU
BURNING BYPRODUCT GAS WITH OIL
PM 92.9000 T/YR
CO 55.5000 T/YR
VOC 70.2000 T/YR

STORAGE TANKS

NOTES

NOX EMISSION LIMIT ON PROCESS HEATERS WILL BE SPECIFIED UPON SUBMISSION OF DETAILED ENGINEERING SPECIFICATIONS. ALSO PERMIT # 119 050 AAA.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

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ID NUMBER IL-0003

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION CLARK OIL, MT. AIRY REFINERY

GARYVILLE, LA

ST. JOHN BAPTIST PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. PSD-LA-392

LAGO/EPA REGION VI
(AGENCY)

BHARAT CONTRACTOR
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/22/63
ESTIMATED DATE OF START-UP--
(504)-342-8940
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

RECOVERY UNIT, SULFUR

THROUGHPUT
CAPACITY

12.00 LT/D

POLLUTANT
EMITTED

S02

50.0000 LB/H

CATALYTIC AFTER BURNER

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

B/A
96.00

NOTES
NSPS NOT APPLICABLE

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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REVIEW STATUS:

ID NUMBER LA-0045

INITIAL REVIEW POST STARTUP

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 225.00 MBPSD

COMPANY NAME/SITE LOCATION COASTAL STATES PETROLEUM P.O. DRAWER 521
CORPUS CHRISTI, TX 78403 NUECES COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. TX-243 DATE OF PERMIT ISSUANCE-- 10/14/80
DETERMINATION MADE BY EPA REGION VI ESTIMATED DATE OF START-UP--
(AGENCY) (214)-767-1594
JOHN BUNYAK (PHONE)
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS ... BASIS
INCIN. 15.70 MBTU/H NOX 2.3000 LB/H 0.1500 LB/MBTU LEA FIRING ... 1 BASIS
CO 0.3000 LB/H 0.0200 LB/MBTU LEA FIRING ... PCT EFF

HEATER, COKER CHARGE 113.00 MBTU/H NOX 13.6000 LB/H 0.1200 LB/MBTU LEA FIRING/LOW NOX BURNERS BACT
CO 2.0400 LB/H 0.0200 LB/MBTU LEA FIRING BACT

HEATER, FCCU FEED 65.00 MBTU/H NOX 7.8000 LB/H 0.1200 LB/MBTU LEA FIRING/LOW NOX BURNERS BACT
CO 1.1700 LB/H 0.0200 LB/MBTU LEA FIRING BACT

REBOILER, ISOSTRIPPER 69.00 MBTU/H NOX 10.7000 LB/H 0.1200 LB/MBTU LEA FIRING/LOW NOX BURNERS BACT

(*) INDICATES DATA WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
ID NUMBER TX-0066 SOURCE TYPE CODE 5.5
PAGE G- 406

(CONTINUED) COASTAL STATES PETROLEUM

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
GAS OIL NOS HEATER	73.00 MBTU/H	CO	1.6000 LB/H 0.0200 LB/MBTU LEA FIRING	BACT
		NOX	8.8000 LB/H 0.1200 LB/MBTU LEA FIRING/LOW NOX BURNERS	BACT
REBOILER, GAS OIL NOS	36.00 MBTU/H	CO	1.3100 LB/H 0.0200 LB/MBTU LEA FIRING	BACT
		NOX	4.3000 LB/H 0.1200 LB/MBTU LEA FIRING/LOW NOX BURNERS	BACT
REBOILER, CRUDE UNIT	55.00 MBTU/H	CO	0.6500 LB/H 0.0200 LB/MBTU LEA FIRING	BACT
		NOX	6.6000 LB/H 0.1200 LB/MBTU LEA FIRING/LOW NOX BURNERS	BACT
HEATER, VACUUM CHARGE	51.00 MBTU/H	CO	0.9900 LB/H 0.0200 LB/MBTU LEA FIRING	BACT
		NOX	5.4000 LB/H 0.1200 LB/MBTU LEA FIRING/LOW NOX BURNERS	BACT
HEATER, CRUDE CHARGE	45.00 MBTU/H	CO	0.9200 LB/H 0.0200 LB/MBTU LEA FIRING	BACT
		NOX	5.4000 LB/H 0.1200 LB/MBTU LEA FIRING/LOW NOX BURNERS	BACT
HEATER, TAIL GAS UNIT	6.30 MBTU/H	CO	0.8100 LB/H 0.0200 LB/MBTU LEA FIRING	BACT
		NOX	5.4000 LB/H 0.1200 LB/MBTU LEA FIRING/LOW NOX BURNERS	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER TX-0066

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 5.5

(CONTINUED) COASTAL STATES PETROLEUM

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
HEATER, REFORMER	123.00 MBTU/H	NOX	0.8000 LB/H	BACT
			0.1200 LB/MBTU	
		CO	LEA FIRING/LOW NOX BURNERS	
			0.1100 LB/H	BACT
HEATER, NAPHTHA HDS	35.00 MBTU/H		0.0200 LB/MBTU	
			LEA FIRING	
		NOX	14.8000 LB/H	BACT
			0.1200 LB/MBTU	
HEATER, KEROSENE HDS	16.30 MBTU/H		LEA FIRING/LOW NOX BURNERS	
		CO	2.2200 LB/H	BACT
			0.0200 LB/MBTU	
			LEA FIRING	
REBOILER, KEROSENE HDS	12.50 MBTU/H	NOX	4.2000 LB/H	BACT
			0.1200 LB/MBTU	
		CO	LEA FIRING/LOW NOX BURNERS	
			0.6300 LB/H	BACT
HEATER, DIESEL HDS	9.10 MBTU/H		0.0200 LB/MBTU	
			LEA FIRING	
		NOX	2.0000 LB/H	BACT
			0.1200 LB/MBTU	
REBOILER, KEROSENE HDS	12.50 MBTU/H	CO	LEA FIRING/LOW NOX BURNERS	
			0.2900 LB/H	BACT
			0.0200 LB/MBTU	
			LEA FIRING	
HEATER, DIESEL HDS	9.10 MBTU/H	NOX	1.5000 LB/H	BACT
			0.1200 LB/MBTU	
		CO	LEA FIRING/LOW NOX BURNERS	
			0.2300 LB/H	BACT
HEATER, DIESEL HDS	9.10 MBTU/H		0.0200 LB/MBTU	
			LEA FIRING	
		NOX	1.1000 LB/H	BACT
			0.1200 LB/MBTU	
HEATER, DIESEL HDS	9.10 MBTU/H	CO	LEA FIRING/LOW NOX BURNERS	
			0.1600 LB/H	BACT
			0.0200 LB/MBTU	
			LEA FIRING	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER TX-0066

REVIEW STATUS: 04/01/1933

SOURCE TYPE CODE 5.5

(CONTINUED) COASTAL STATES PETROLEUM

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
REGOILER, DIESEL HDS	10.30 MMBTU/H	NOX	1.2000 LB/H 0.1200 LB/MMBTU LEA FIRING/LOW NOX BURNERS	BACT
		CO	0.1800 LB/H 0.0200 LB/MMBTU LEA FIRING	BACT
BOILER, UTILITY	88.00 MMBTU/H	NOX	10.6000 LB/H 0.1200 LB/MMBTU LEA FIRING/LOW NOX BURNERS	BACT
		CO	1.6000 LB/H 0.0200 LB/MMBTU LEA FIRING	BACT
BOILER, UTILITY	88.00 MMBTU/H	NOX	10.6000 LB/H 0.1200 LB/MMBTU LEA FIRING/LOW NOX BURNERS	BACT
		CO	1.6000 LB/H 0.0200 LB/MMBTU LEA FIRING	BACT
REGENERATOR, FCCU		NOX	160.0000 LB/H NONE	BACT
		CO	103.9000 LB/H HIGH TEMP. REGENERATION	BACT

NOTES -----
CAPACITY INCREASE FROM 185 TO 225 MMBPSD.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 12000.00 BPSD

COMPANY NAME/SITE LOCATION CONOCO, INC. WESTLAKE, LA CALCASIEU PARISH

LAKE CHARLES REFIN.

DATE OF PERMIT ISSUANCE-- 10/08/81
ESTIMATED DATE OF START-UP-- 1982
(214)-767-1594
(PHONE)

JOHN BENHAM
(AGENCY CONTACT PERSON)

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-419
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, HDS CHARGE	39.00 MMBTU/H	NOX	0.1200 LB/MMBTU LOW NOX BURNERS LOW EXCESS AIR	BACT
REBOILER, HDS STRIPPER	39.00 MMBTU/H	NOX	0.1200 LB/MMBTU LOW NOX BURNERS LOW EXCESS AIR	BACT
HEATER, REFORMER CHARGE	52.00 MMBTU/H	NOX	0.1200 LB/MMBTU LOW NOX BURNERS LOW EXCESS AIR	BACT
HEATER, INTERPASS	46.00 MMBTU/H	NOX	0.1200 LB/MMBTU LOW NOX BURNERS LOW EXCESS AIR	BACT
HEATER, INTERPASS	37.00 MMBTU/H	NOX	0.1200 LB/MMBTU LOW NOX BURNERS LOW EXCESS AIR	BACT
REBOILER, DEPROPANIZER	32.00 MMBTU/H	NOX	0.1200 LB/MMBTU LOW NOX BURNERS LOW EXCESS AIR	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
SOURCE TYPE CODE 5.5
ID NUMBER LA-0008
PAGE G- 410

(CONTINUED) CONOCO, INC.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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SAME PROCESS (CONTINUED)

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER LA-0008

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 100000.00 BBL/D

COMPANY NAME/SITE LOCATION CONOCO, INC. WESTLAKE, LA CALCASIEU PARISH
LAKE CHARLES REFIN.

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-390
DETERMINATION MADE BY EPA REGION VI
(AGENCY)
TOM DIGGS
(AGENCY CONTACT PERSON)
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COKER HEATERS, 2 DELAYED REG.	99.00 MTBTU/H	NOX	0.1200 LB/MTBTU LOW NOX BURNER LOW EXCESS AIR	BACT
HEATER, CRACKED DISTIL HYDRO DE*	16.00 MTBTU/H	NOX	0.1200 LB/MTBTU LOW NOX BURNER LOW EXCESS AIR	BACT
HEATER, HEAVY VACUUM GAS OIL HY*	15.00 MTBTU/H	NOX	0.1200 LB/MTBTU LOW NOX BURNER LOW EXCESS AIR	BACT
INCIN., SULFUR RECOVERY PLANT	9.68 MTBTU/H	NOX	0.1200 LB/MTBTU LOW NOX BURNER LOW EXCESS AIR	BACT

NOTES -----
4 FUEL GAS-HEATERS.

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 48000.00 BBL/D

COMPANY NAME/SITE LOCATION CRA, INC. COFFEYVILLE, KS MONTGOMERY COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. EPA REGION VII
 DETERMINATION MADE BY (AGENCY) DANIEL RODRIGUEZ (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 09/04/80
 ESTIMATED DATE OF START-UP-- (816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, UNIT 40 (RETROFIT)	51.00 MMBTU/H	NOX	0.1300 LB/MMBTU LOW NOX BURNERS	BACT
HEATER, UNIT 41 (BUILT, BUT NOT*)	32.00 MMBTU/H	NOX	0.1500 LB/MMBTU	BACT
HEATER, UNIT 42 (RELOCATE)	136.00 MMBTU/H	NOX	0.1600 LB/MMBTU CONVENT. BURN W/AIR PREHEAT	BACT
HEATER, UNIT 43 (RELOCATE)	27.60 MMBTU/H	NOX	0.1300 LB/MMBTU LOW NOX BURNERS	BACT
HEATER, UNIT 44 (NEW)	21.70 MMBTU/H	NOX	0.1300 LB/MMBTU LOW NOX BURNERS	BACT
HEATER, UNIT 45 (NEW)	62.20 MMBTU/H	NOX	0.1300 LB/MMBTU LOW NOX BURNERS	BACT

NOTES -----
 LIMITS FOR UNITS 42 & 43 WERE AMENDED FROM 0.15 LB/MMBTU ON JULY 6, 1981. SIZE IS REFINERY CAPACITY. UNITS 41 & 42 EQUIPPED WITH CONVENTIONAL BURNERS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 REVIEW STATUS: 04/01/1983
 INITIAL REVIEW POST STARTUP
 ID NUMBER KS-0003
 SOURCE TYPE CODE 5.5
 PAGE G- 413

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 30000.00 BBL/M

COMPANY NAME/SITE LOCATION CYPRESS REFINING CO., HILL PETROLEUM CO. KROTZ SPRINGS, LA

ST. LANDRY PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. PSD-LA-504
DETERMINATION MADE BY

LAQD/EPA REGION VI
(AGENCY)

AGENCY CONTRACTOR
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/03/84
ESTIMATED DATE OF START-UP-- 1982
(504)-342-8940
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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BOILER, #1-82

99.50 MMBTU/H

NOX 15.3200 LB/H

COMB. CONTRL W/O2 MONITOR

BACT

VE 20.0000 % OPACITY

COMB. CONTRL W/O2 MONITOR

BACT

BOILER, #2-82

99.50 MMBTU/H

NOX 17.5100 LB/H

COMB. CONTRL W/O2 MONITOR

BACT

VE 20.0000 % OPACITY

COMB. CONTRL W/O2 MONITOR

BACT

NOTES

BOTH BOILERS ARE FIRED WITH REFINERY FUEL GAS. BOTH BOILERS HAVE THE SAME RATED HEAT INPUT, HOWEVER, THE EMISSION RATES FOR NO X ARE DIFFERENT DUE TO DIFFERENT FIRE BOX CONFIGURATION.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS:

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ID NUMBER LA-0027A

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 60000.00 BBL/D

COMPANY NAME/SITE LOCATION DIAMOND SHAMROCK CORP. P.O. BOX 631 AHARILLO, TX 77173 MOORE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. PERMIT NO. TX-346 DATE OF PERMIT ISSUANCE-- 09/04/81
 DETERMINATION MADE BY EPA REGION VI ESTIMATED DATE OF START-UP--
 (AGENCY) (214)-767-1594
 (AGENCY CONTACT PERSON) JOHN BUNYAK (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY 240.00 HHBTU/H
 PROCESS BOILER, 2

EMISSION LIMITS	POLLUTANT	THROUGHPUT	EMISSION LIMITS	... & BASIS
CONTROL EQUIPMENT OR PROCESS MODIFICATION	EMITTED	CAPACITY	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... PCT EFF
SCRUB FUEL GAS & 0.7% S FUEL OIL	SO2	103.8700 LB/H	SCRUB FUEL GAS & 0.7% S FUEL OIL	B/N
LOW NOX BURNERS	NOX	130.0000 LB/H	LOW NOX BURNERS	BACT
EFFICIENT COMBUSTION	CO	6.8100 LB/H	EFFICIENT COMBUSTION	BACT
SCRUB FUEL GAS & 0.7% FUEL OIL	PM	10.0600 LB/H	SCRUB FUEL GAS & 0.7% FUEL OIL	BACT
	SO2	931.5000 LB/H		BACT
	NOX	24.4000 LB/H		BACT
	CO	195.0000 LB/H		BACT
	PM	22.7000 LB/H		BACT
			ESP	98.60

FCCU REGEN STACK, 2 45000.00 BBL/D

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER TX-0034
 SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION EXXON CHEMICAL AMERICAS

BAYTOWN, TX 77520

HARRIS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-302
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

TON DIGGS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/30/81
ESTIMATED DATE OF START-UP-- 1984
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... A BASIS
... PCT EFF

HEATERS, NAT. GAS-FIRED, 3 EA 275.00 HHBTU/H

NOX

0.2300 LB/HHBTU

CONTROL OF EXCESS OXYGEN

BACT

NOTES

EPA ORIGINALLY SPECIFIED 0.12 LB/HHBTU AS BACT, BUT EXXON PROVIDED INFORMATION ON THE HEATER DESIGN AND TEST DATA ON SIMILAR HEATERS TO JUSTIFY THE NEED FOR 0.23 LB/HHBTU.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER TX-0046

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION EXXON CO. USA BENTICIA, CA

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. 27599 DATE OF PERMIT ISSUANCE-- 12/10/80
 DETERMINATION MADE BY BAY AREA AQMD ESTIMATED DATE OF START-UP-- 1982
 (AGENCY) LEONARD CLAYTON (415)-771-6000
 (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FURNACE, REFINERY PROCESS	165.00 MBTU/H	NOX	40.0000 PPH AT 3X O2 207.0000 LB/D LOW NOX BURNERS & THERMAL DE-NOX	70.00

NOTES
 DEMONSTRATED TECHNOLOGY. FILE A 310-010

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/19/1984
 ID NUMBER CA-0057
 SOURCE TYPE CODE 5.5
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 30000.00 BPSD

COMPANY NAME/SITE LOCATION FRIENDSWOOD REFIN.
CHOATE ROAD

HOUSTON, TX

HARRIS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-387
DETERMINATION MADE BY EPA REGION VI
(AGENCY)
JOHN BURYAK
(AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 06/30/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... BASIS ... PCT EFF
HEATERS, 4	75.00 MMSTU/H	PH	0.0042 LB/MMSTU GAS FIRED	BACT
		SO2	0.0224 LB/MMSTU REFINERY GAS FIRED	NSPS
		NOX	0.1000 LB/MMSTU LOW NOX BURNERS	BACT
		CO	0.0142 LB/MMSTU EFFICIENT COMBUSTION	BACT
BOILER	40.00 MMSTU/H	PH	0.0042 LB/MMSTU GAS FIRED	BACT
		SO2	0.0214 LB/MMSTU REFINERY GAS FIRED	NSPS
		NOX	0.1000 LB/MMSTU LOW NOX BURNERS	BACT
		CO	0.0142 LB/MMSTU EFFICIENT COMBUSTION	BACT
SULFUR RECOVERY UNIT		SO2	9.1500 LB/H CLAUS PLANT	BACT 99.00
FCCU REGENERATOR		PH	24.0000 LB/H ESP (0.65 LB/HLB OF COKE)	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
PAGE G- 418
ID NUMBER TX-0022
REVIEW STATUS: 04/01/1993
INITIAL REVIEW POST STARTUP
SOURCE TYPE CODE 5.5

(CONTINUED) FRIENDSWOOD REFIN.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CO BOILER COMPLEX		SO2	46.0000 LB/H	NSPS
		NOX	103.5000 LB/H	75.00 BACT
		CO	175.5000 LB/H	NSPS
			NO CONTROL	
			CO BOILER (500 PPM)	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
SOURCE TYPE CODE 5.5

ID NUMBER TX-0022

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 350.00 MBTU/H

COMPANY NAME/SITE LOCATION GETTY OIL CO. BAKERSFIELD, CA 93306
ROUTE 1, BOX 197-X

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. SJ-81-11
DETERMINATION MADE BY EPA REGION IX
(AGENCY) JOE SLAMOVICH
(AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 08/24/92
ESTIMATED DATE OF START-UP--
(815)-974-0235
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY 240.00 BBL/D
STEAM GENERATOR, 7
POLLUTANT EMISSION LIMITS
EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
NDX 0.1500 LB/MBTU PER GEN. ... PCT EFF
ANTONIA INJECTION 63.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
PAGE 6- 420
ID NUMBER CA-0030
REVIEW STATUS: 04/01/1983 04/04/1984
INITIAL REVIEW POST STARTUP
SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 350000.00 BPSD
 COMPANY NAME/SITE LOCATION GOOD HOPE REFIN., INC.
 P.O. BOX 126, 257 PROSPECT AVENUE
 ST. CHARLES PARISH
 6000 HOPE, LA 70079

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. DATE OF PERMIT ISSUANCE-- 05/08/81
 ESTIMATED DATE OF START-UP--
 (214)-767-1594
 (PHONE)
 JOHN BUNTAK
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY 26.00 MBTU/H
 STRIPPER REBOILER

PROCESS SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... BASIS ...
STRIPPER REBOILER	26.00 MBTU/H	PM	0.3000 LB/H 0.0110 LB/1000 BTU	GASEOUS FUEL	BACT
		SO2	0.5000 LB/H 0.0190 LB/1000 BTU	GASEOUS FUEL	NSPS
		NOX	3.1000 LB/H 0.1200 LB/1000 BTU	0.10 GRH2S/DSCF LOW NOX BURNERS, LEA FIRING	BACT
		CO	0.4000 LB/H 0.0140 LB/1000 BTU	COMBUSTION CONTROL	BACT
REFORMER STABILIZER	26.00 MBTU/H	PM	0.3000 LB/H 0.0110 LB/1000 BTU	GASEOUS FUEL	BACT
		SO2	0.5000 LB/H 0.0190 LB/1000 BTU	GASEOUS FUEL	NSPS
		NOX	3.1000 LB/H 0.1200 LB/1000 BTU	0.10 GRH2S/DSCF LOW NOX BURNERS, LEA FIRING	BACT
		CO	0.4000 LB/H 0.0140 LB/1000 BTU	COMBUSTION CONTROL	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 SOURCE TYPE CODE 5.5
 ID NUMBER LA-0032

(CONTINUED) GOOD HOPE REFIN., INC.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CRUDE HEATER	317.00 MBTU/H			
		PH	3.4000 LB/H 0.0110 LB/MBTU	BACT
		SO2	GASEOUS FUEL 6.1000 LB/H 0.0190 LB/MBTU	NSPS
		NOX	0.10 GRH2S/DSCF 39.0000 LB/H 0.1200 LB/MBTU	BACT
		CO	LOW NOX BURNERS, LEA FIRING 4.5000 LB/H 0.0140 LB/MBTU	BACT
			COMBUSTION CONTROL	
FCCU FURNACE	45.00 MBTU/H			
		PH	0.5000 LB/H 0.0110 LB/MBTU	BACT
		SO2	GASEOUS FUEL 0.9000 LB/H 0.0190 LB/MBTU	NSPS
		NOX	0.10 GRH2S/DSCF 5.4000 LB/H 0.1200 LB/MBTU	BACT
		CO	LOW NOX BURNERS, LEA FIRING 0.6000 LB/H 0.0140 LB/MBTU	BACT
			COMBUSTION CONTROL	
FCCU FURNACE	39.00 MBTU/H			
		PH	0.4000 LB/H 0.0110 LB/MBTU	BACT
		SO2	GASEOUS FUEL 0.7000 LB/H 0.0190 LB/MBTU	NSPS
		NOX	0.10 GRH2S/DSCF 4.7000 LB/H 0.1200 LB/MBTU	BACT
		CO	LOW NOX BURNERS, LEA FIRING 0.6000 LB/H 0.0140 LB/MBTU	BACT
			COMBUSTION CONTROL	
VACUUM COLUMN FURNACE	244.00 MBTU/H			

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 ID NUMBER LA-0032
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 SOURCE TYPE CODE 5.5

(CONTINUED) GOOD HOPE REFIN., INC.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
DEMEX HEATER	25.00 MTBTU/H	PM	2.6000 LB/H 0.0110 LB/MTBTU GASEOUS FUEL	BACT
		SO2	4.7000 LB/H 0.0190 LB/MTBTU 0.10 GRH2S/DSCF	NSPS
		NOX	29.3000 LB/H 0.1200 LB/MTBTU LOW NOX BURNERS, LEA FIRING	BACT
		CO	3.5000 LB/H 0.0140 LB/MTBTU COMBUSTION CONTROL	BACT
		PM	0.3000 LB/H 0.0110 LB/MTBTU GASEOUS FUEL	BACT
		SO2	0.5000 LB/H 0.0190 LB/MTBTU 0.10 GRH2S/DSCF	NSPS
		NOX	3.0000 LB/H 0.1200 LB/MTBTU LOW NOX BURNERS, LEA FIRING	BACT
		CO	0.4000 LB/H 0.0140 LB/MTBTU COMBUSTION CONTROL	BACT
		PM	0.4000 LB/H 0.0110 LB/MTBTU GASEOUS FUEL	BACT
		SO2	0.6000 LB/H 0.0190 LB/MTBTU 0.10 GRH2S/DSCF	NSPS
FCCU REGENERATOR	62000.00 BBL/D	NOX	4.8000 LB/H 0.1200 LB/MTBTU LOW NOX BURNERS, LEA FIRING	BACT
		CO	0.6000 LB/H 0.0140 LB/MTBTU COMBUSTION CONTROL	BACT
		PM	0.4000 LB/H 0.0110 LB/MTBTU GASEOUS FUEL	BACT
		SO2	0.6000 LB/H 0.0190 LB/MTBTU 0.10 GRH2S/DSCF	NSPS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1933
SOURCE TYPE CODE 5.5

ID NUMBER LA-0032

(CONTINUED) 6000 HOPE REFIN., INC.

PROCESSES SUBJECT TO THIS PERMIT
 SAME PROCESS (CONTINUED)

THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
	PM	64.9000 LB/H THIRD-STAGE CYCLONE SEPARATOR	NSPS 95.00
	SO2	761.7000 LB/H	BACT
	NOX	242.6000 LB/H SULFUR REDUCTION CATALYST	BACT
	CO	130.6000 LB/H LEA FIRING COREUSSION CONTROL	NSPS
	SO2	12.8000 LB/H TAIL-GAS TREATMENT (SCOT)	NSPS 98.00

SULFUR PLANT INCIN.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER LA-0032

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION GULF OIL CO.
20 M SE BEAUMONT H 73

PORT ARTHUR, TX 77640

JEFFERSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-234
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

DATE OF PERMIT ISSUANCE-- 10/13/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY 425.00 M³/TU/H
HEATERS, & EA

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
NOX	0.3000 LB/M ³ TU AIR/FUEL RATIO		BACT
SO2	0.5000 LB/M ³ TU LOW SULFUR FUEL (.5 % S)		NSPS
CO	0.0370 LB/M ³ TU EFFICIENT COMBUSTION		BACT
PM	0.0500 LB/M ³ TU EFFICIENT COMBUSTION		BACT
SO2	70.4000 LB/H DESULFURIZED FUEL		NSPS

TREATING UNIT, SCOT TAIL GAS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
SOURCE TYPE CODE 5.5

ID NUMBER TX-0049

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION GULF OIL CO.
P.O. BOX 701

PORT ARTHUR, TX 77640

JEFFERSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. TX-342

DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/21/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SOLVENT EXTRACTION UNIT #1643	122.30 MBTU/H			

		SO2	2.0000 LB/H 0.0200 LB/MBTU NAT. GAS/REFIN. GAS, TRACE H2S	NSPS
		NOX	14.6700 LB/H 0.1200 LB/MBTU LEA CONTROLS, LNB	BACT

LUBE VACUUM UNIT #147

124.30 MBTU/H

		SO2	72.3000 LB/H 0.6000 LB/MBTU NAT. GAS/REFIN. GAS, TRACE H2S	NSPS
		NOX	37.3000 LB/H 0.3000 LB/MBTU LEA CONTROLS, LNB	BACT

GULFINING UNIT #243

66.70 MBTU/H

		SO2	38.3000 LB/MBTU 0.6000 LB/H NAT. GAS/REFIN. GAS, TRACE H2S	NSPS
		NOX	20.0000 LB/H 0.3000 LB/MBTU LEA CONTROLS, LNB	BACT

CATALYTIC DEWAXING UNIT #1944

20.00 MBTU/H

		SO2	11.6000 LB/H 0.6000 LB/MBTU NAT. GAS/REFIN. GAS, TRACE H2S	NSPS
--	--	-----	--	------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

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ID NUMBER TX-0062

SOURCE TYPE CODE 5.5

(CONTINUED) GULF OIL CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
SULFUR RECOVERY UNIT #544	15.70 MMBTU/H	NOX	6.0000 LB/H 0.3000 LB/MMBTU LEA CONTROLS, TRACE H2S	BACT
SOLVENT DEWAXING UNIT	100.10 MMBTU/H	SO2	45.0000 LB/H NAT. GAS FIRED	NSPS 99.90 BACT
		NOX	1.9000 LB/H LEA CONTROLS, LNB	
		SO2	3.0000 LB/H 0.0300 LB/MMBTU	NSPS
		NOX	67.4000 LB/H NAT. GAS/REFIN. GAS, TRACE H2S 0.6700 LB/MMBTU NONE	BACT
SOLVENT DEWAXING UNIT #1943	35.60 MMBTU/H	SO2	1.1000 LB/H 0.0300 LB/MMBTU	NSPS
		NOX	23.9000 LB/H REFIN. GAS/NAT. GAS, TRACE H2S 0.6700 LB/MMBTU NONE	BACT
GULFINING UNIT #244	60.00 MMBTU/H	SO2	34.9000 LB/H 0.6000 LB/MMBTU	NSPS
		NOX	18.0000 LB/H 0.3000 LB/MMBTU 0.5% S IN OIL	BACT
DELAYED COKING UNIT	116.00 MMBTU/H	SO2	3.5000 LB/H 0.0200 LB/MMBTU	NSPS
		NOX	13.9000 LB/H 0.1200 LB/MMBTU LEA FIRING, LNB	BACT

NOTES -----

SOLVENT DEWAXING UNIT #1943: CHANGE FUEL TYPE FROM REFINERY GAS ONLY TO REFINERY GAS/NATURAL GAS. LNB -- LOW NOX BURNERS. TRAC
E H2S -- <0.10 GR H2S/DSCF.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: 04/01/1993

INITIAL REVIEW POST STARTUP

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ID NUMBER TX-0062

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION HAWAIIAN INDEPEN. REFIN.

EMA BEACH, HI

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. (REGION FILE NO.) HI 81-01

DETERMINATION MADE BY EPA REGION IX

(AGENCY)

DENNIS BEAUREGARD

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/18/81

ESTIMATED DATE OF START-UP--

(415)-974-8236

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

HEATER, CRUDE OIL, #4

110.00 MBTU/H

NOX 0.4000 LB/MBTU

LOW NOX BURNERS

SO2 60.0000 LB/MBTU

PH 6.1000 LB/H

0.5% S #6 FUEL OIL

0.5% S #6 FUEL OIL

REFORMER FURNACE, H2 GEN. PLANT

125.00 MBTU/H

NOX 0.1700 LB/MBTU

LOW NOX BURNERS

SO2 2.4000 LB/H

PH 1.4000 LB/H

BURN REF GAS - 0.1 GR H2S/DSCF

NONE

NOTES

BACT IS DETERMINED BY TECHNOLOGY AND ECONOMICS. FACILITY EXPANSION FROM 95000 BBL/DAY TO 125000 BBL/DAY BY INSTALLATION OF A H EATER AND HYDROGENATION PLANT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER HI-0001

REVIEW STATUS: 04/01/1993

INITIAL REVIEW POST STARTUP

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 2.00 MMSCFD

COMPANY NAME/SITE LOCATION HIGH PRAIRIE ENERGY CO.

NEAR CUT BANK, MT

TODOLE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO.

DETERMINATION MADE BY EPA REGION VIII (AGENCY)

JOHN DALE (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/05/80
ESTIMATED DATE OF START-UP--
(303)-837-3763
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT INCINERATOR

THROUGHPUT CAPACITY 2.00 MMSCFD

POLLUTANT EMISSION LIMITS
EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

SO2 65.0000 LB/H
INCINERATION

BACT 0.00

NOTES -----
4 YEAR PERMIT LIMIT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER MT-0001

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

PETROLEUM REFINING - AUXILIARY

66550.00 BPSD

HILL PETROLEUM
KROTZ SPRINGS TERRIN

KROTZ SPRINGS, LA 70750

ST. LANDRY PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-286A
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

DATE OF PERMIT ISSUANCE-- 03/10/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

TOM DIGGS
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... BASIS ... PCT EFF

HEATER 146.00 HHBTU/H

VOC 0.0020 LB/HHBTU

EFFICIENT COMBUSTION

BACT

HEATER 31.00 HHBTU/H

VOC 0.0020 LB/HHBTU

EFFICIENT COMBUSTION

BACT

TANKS, 11 EA 80000.00 EBL

VOC 2.4200 LB/H

DOUBLE SEALS

BACT

TANKS, 4 EA 100000.00 EBL

VOC 2.5800 LB/H

DOUBLE SEALS

BACT

TANKS, 2 EA 150000.00 EBL

VOC 7.3200 LB/H

DOUBLE SEALS

BACT

LOADING DOCK WASTEWATER

VOC 3.8200 LB/H

HAINTENANCE PROGRAM

BACT

SEPARATOR

VOC 0.3100 LB/H

HAINTENANCE PROGRAM

BACT

PUMP SEALS

VOC 0.6500 LB/H

HAINTENANCE PROGRAM

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER LA-0007

SOURCE TYPE CODE 5.5

(CONTINUED) HILL PETROLEUM

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VALVES & FLANGES		VOC	7.7200 LB/H MAINTENANCE PROGRAM	BACT
RELIEF VALVES		VOC	1.2000 LB/H MAINTENANCE PROGRAM	BACT
COMPRESSOR SEALS		VOC	0.1900 LB/H MAINTENANCE PROGRAM	BACT

(*) INDICATES DATA WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
SOURCE TYPE CODE 5.5
ID NUMBER LA-0027

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION HYDROCARBON RECYCLERS, INC.

TULSA, OK

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. T81-15 & T82-101

DETERMINATION MADE BY

TULSA CITY-COUNTY HEALTH DEPT JIM VAN SANDT
(AGENCY)

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/14/82
ESTIMATED DATE OF START-UP-- 1982
(918)-744-1000
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

ATHOS. & VACUUM DISTIL. USED OIL 500000.00 GAL/YR

POLLUTANT
EMITTED

THROUGHPUT
CAPACITY

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

VOC

13.0000 T/YR

INCIN. IN OIL PREHEAT FURNACE

98.00

150000.00 GAL/YR

DISTIL. OF CHLORINATED HC

VOC

CLOSED SYS-DISTIL. UNIT & TANKAGE-2"H2O PRV

99.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER OK-0014

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

PETROLEUM REFINING - AUXILIARY

50.00 MBPSD

SOURCE TYPE/SIZE

WINNIE, TX

JEFFERSON COUNTY

COMPANY NAME/SITE LOCATION INDEPENDENT REFIN.

DATE OF PERMIT ISSUANCE-- 09/11/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

TOM DIGGS
(AGENCY CONTACT PERSON)

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-383
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

HEATERS, 6

96.50 MBTU/H

NOX

0.1100 LB/MBTU

LOW NOX BURNERS

NSPS

REBOILER

14.40 MBTU/H

NOX

0.1100 LB/MBTU

LOW NOX BURNERS

NSPS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER TX-0021

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 404.00 LT/D

COMPANY NAME/SITE LOCATION KOCH REFINING CO. ROSEMOUNT, MN

DETERMINATION IS BASED FOR A MODIFIED SOURCE.
 PERMIT NO. 106-81-1-19 DATE OF PERMIT ISSUANCE-- 06/18/81
 DETERMINATION MADE BY MINNESOTA PCA ESTIMATED DATE OF START-UP-- 1982
 (AGENCY) (612)-296-7718
 ANTO NIEMIOJA (PHONE)
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CLAUS SULFUR RECOVERY UNIT #3	170.00 LT/D	SO2	250.0000 PPM TAIL GAS SCRUBBER	NSPS 99.65

NOTES
 THE EMISSION LIMIT IS BASED ON NSPS AVERAGING TIMES.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/19/1994
 ID NUMBER MN-0009
 SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

PETROLEUM REFINING - AUXILIARY

404.00 LT/D

COMPANY NAME/SITE LOCATION KOCH REFINING CO.

ROSEMOUNT, MN

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. 106A-03-1-23
DETERMINATION MADE BY MINNESOTA PCA
(AGENCY)

DATE OF PERMIT ISSUANCE-- 01/25/83
ESTIMATED DATE OF START-UP-- 1983
(612)-296-7718
(PHONE)

AHTO NIEHIOJA
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

CLAUS SULFUR RECOVERY UNIT #4

234.00 LT/D

SO2 150.0000 PPM

TAIL GAS SCRUBBER

99.65

NOTES

THE EMISSION LIMIT IS BASED ON NSPS AVERAGING TIMES. A CONTINUOUS EMISSION MONITORING SYSTEM WILL BE USED TO VERIFY COMPLIANCE OF COMBINED SRU 3 & 4 GASES AS A 30 D ROLLING AVERAGE AT 200 PPM.

(#) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/19/1994

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 30000.00 BPSD
 COMPANY NAME/SITE LOCATION LONGVIEW REFIN. LONGVIEW, TX GREGG COUNTY
 5 KM SW POST OFFICE

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. PSD-TX-364 DATE OF PERMIT ISSUANCE-- 05/08/81
 DETERMINATION MADE BY EPA REGION VI ESTIMATED DATE OF START-UP--
 (AGENCY) (AGENCY CONTACT PERSON) (214)-767-1594
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS ... & BASIS
 FCC REGENERATOR 15000.00 BBL/D PH 10.6000 LB/H ESP BACT
 SO2 190.3000 LB/H NSPS
 NOX 32.7000 LB/H S REDUCTION CATALYST 75.00 BACT
 CO 79.5000 LB/H NONE BACT
 HIGH TEMP REGENERATION

TURBINE, 3 6275.00 HP PH 0.0700 G/HP-H REF. FUEL GAS BACT
 SO2 0.1200 G/HP-H REF. FUEL GAS BACT
 NOX 1.3000 G/HP-H REF. FUEL GAS BACT
 CO 0.4900 G/HP-H EFFICIENT COMBUSTION NSPS

HEATERS, 25 80.60 HHBTU/H PH 0.0100 LB/HHBTU FUEL GAS/LOW S OIL BACT
 SO2 0.0270 LB/HHBTU FUEL GAS/LOW S OIL NSPS
 NOX 0.1200 LB/HHBTU LOW NOX BURNERS BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
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 ID NUMBER TX-0029
 REVIEW STATUS: 04/01/1983
 INITIAL REVIEW POST STARTUP
 SOURCE TYPE CODE 5.5

(CONTINUED) LONGVIEW REFIN.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMISSION	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
BOILERS, 2	74.00 MMBTU/H	CO	0.0200 LB/MMBTU EFFICIENT COMBUSTION	BACT
		PM	0.0100 LB/MMBTU FUEL GAS	BACT
		SO2	0.0270 LB/MMBTU FUEL GAS	BACT
		NOX	0.1200 LB/MMBTU LOW NOX BURNERS	BACT
		CO	0.0200 LB/MMBTU EFFICIENT COMBUSTION	BACT
SULFUR RECOVERY UNIT	40.00 T/D	SO2	3 STAGE CLAUSS PLANT	NSPS 99.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993
SOURCE TYPE CODE 5.F

ID NUMBER TX-0029

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION MAPCO PETROLEUM REFINERY EXPANSION

NORTH POLE, AK

DETERMINATION IS BACT
PERMIT NO. 8431-AA010
DETERMINATION MADE BY

ALASKA DEC
(AGENCY)

DAVE ESTES
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/19/85
ESTIMATED DATE OF START-UP-- 1985
(907)465-2666
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

150.00 MBTU/H

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

SO2
NOX

150.0000 PPM

0.0800 LB/MBTU, GAS
0.1500 LB/MBTU, OIL

H2S
VE

0.1000 GR/DSCF IN FUEL GAS
10.0000 % OPACITY

BACT
BACT
BACT

NOTES

S02 CONTROL ALSO INCLUDES NETTING OF EXISTING EMISSIONS, SO THE TOTAL CONTROL LEVEL CONSIDERED BACT IS EQUAL TO FUEL CONTENT OF 0.07% SULFUR IN LIQUID.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

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ID NUMBER AK-0011

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE
PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION MARATHON OIL CO.

ROBINSON, IL

CRAWFORD COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. C 8005034
DETERMINATION MADE BY ILLINOIS EPA
(AGENCY)

CHRIS ROMAINE
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/01/80
ESTIMATED DATE OF START-UP-- 1982
(217)-762-2113
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... BASIS
HEATERS	250.00 MBTU/H MAX				... PCT EFF

HEATER	250.00 MBTU/H MAX	SO2	1.0000 LB/MBTU	H2S FUEL LIM : 0.10 GR/DSCF
		NOX	0.3000 LB/MBTU	
		PM	0.1000 LB/MBTU	
		SO2	0.6000 LB/MBTU	LOW NOX BURNERS
		NOX	0.3000 LB/MBTU	
		PM	0.1000 LB/MBTU	

NOTES -----
SO2 EMISSION LIMIT TO BE MET WITH REFINERY GAS, RESID. OIL, OR ANY COMBINATION. H2S IN FUEL GAS LIMITED TO 0.1 GR/DSCF.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER IL-0007

REVIEW STATUS: 04/01/1983 04/04/1984
INITIAL REVIEW POST STARTUP
SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION MARATHON OIL CO.
P.O. BOX 1191

TEXAS CITY, TX 77590

GALVESTON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. TX-241
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

DATE OF PERMIT ISSUANCE-- 03/03/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, CRUDE	175.00 MBTU/H	NOX	36.7400 LB/H NAT GAS 0.2200 LB/MBTU NAT GAS	BACT
			LOW NOX BURN./LEA FIRING	
		SO2	4.3000 LB/H NAT GAS 0.0260 LB/MBTU NAT GAS	NSPS
			<0.1 GR H2S/DSCF	
		NOX	52.5000 LB/H FUEL OIL 0.3000 LB/MBTU FUEL OIL	BACT
			LOW NOX BURN./LEA FIRING	
		SO2	115.8000 LB/H FUEL OIL 0.6600 LB/MBTU FUEL OIL	NSPS
			0.6% S FUEL OIL	

NOTES -----
REPLACES AN EXISTING CRUDE HEATER FIRING REFINERY GAS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
SOURCE TYPE CODE 5.5
ID NUMBER TX-0065
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 70000.00 BBL/D

COMPANY NAME/SITE LOCATION NATIONAL COOP. REFIN. ASSOC. MCPHERSON, KS MCPHERSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. DANIEL PUJRIQUEZ DATE OF PERMIT ISSUANCE-- 07/17/81
 DETERMINATION MADE BY EPA REGION VII (AGENCY CONTACT PERSON) ESTIMATED DATE OF START-UP--
 (816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PROCESS HEATER, UNIT HF-009	64.00 MBTU/H	NOX	0.1500 LB/MBTU MAX LOW EXCESS AIR	BACT
PROCESS HEATER, UNIT HF-010	64.00 MBTU/H	NOX	0.1500 LB/MBTU MAX LOW EXCESS AIR	BACT
PROCESS HEATER, UNIT HP-012	32.90 MBTU/H	NOX	0.1500 LB/MBTU MAX LOW EXCESS AIR	BACT

NOTES -----
 REFINERY BEING MODIFIED TO ALLOW PROCESSING OF HIGH SULFUR CRUDES (SCC PROJECT). CAPACITY TO BE INCREASED FROM 57000 TO 70000 BBL/D. SOURCE SIZE IS REFINERY CAPACITY.

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 35.00 MBPSD

COMPANY NAME/SITE LOCATION NEDERLAND PROCESSING CO.
P.O. BOX 1567

NEDERLAND, TX 77627

JEFFERSON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. TX-262

DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/31/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

VACUUM UNIT FURNACE

THROUGHPUT
CAPACITY
150.00 MBTU/H

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

PH	7.9000 LB/H OIL 0.0530 LB/MBTU OIL	LIQUID OR GASEOUS FUEL	BACT
S02	70.0000 LB/H OIL 0.4670 LB/MBTU OIL 0.42% S OIL		BACT
NOX	45.0000 LB/H OIL 0.3000 LB/MBTU OIL LEA FIRING		BACT
CO	5.5000 LB/H OIL 0.0370 LB/MBTU OIL	COMBUSTION CONTROLS	BACT
VOC	1.1000 LB/H OIL 0.0070 LB/MBTU OIL		LAER
PH	2.0000 LB/H GAS 0.0130 LB/MBTU GAS	LIQUID OR GASEOUS FUEL	BACT
S02	3.5000 LB/H GAS 0.0230 LB/MBTU GAS 0.1% GR H2S/DSCF		NSPS
NOX	18.0000 LB/H GAS 0.1200 LB/MBTU GAS LEA FIRING		BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER TX-0060

SOURCE TYPE CODE 5.5

(CONTINUED) NEDERLAND PROCESSING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... BASIS ... PCT EFF	
SAME PROCESS (CONTINUED)					
FCCU REGEN		CO	2.3000 LB/H GAS 0.0150 LB/HMBTU GAS COMBUSTION CONTROLS	BACT	
		VOC	0.4000 LB/H GAS 0.0070 LB/HMBTU GAS	BACT	
		PH	0.4000 LB/H 1.0000 LB/HLB COKE ESP	NSPS	
		SO2	42.7000 LB/H S REDUCTION CATALYST	95.00 BACT	
		NOX	31.5000 LB/H LEA FIRING	75.00 BACT	
		CO	73.5000 LB/H 500.0000 PPHV, LESS THAN COMBUSTION CONTROL	NSPS	
		VOC	7.9000 LB/H	BACT	
		PH	4.7000 LB/H OIL 0.0520 LB/HMBTU OIL	BACT	
		SO2	42.0000 LB/H OIL 0.4670 LB/HMBTU OIL 0.42% S OIL	BACT	
		NOX	27.0000 LB/H OIL 0.3000 LB/HMBTU OIL LEA FIRING	BACT	
ISOSTRIPPER REBOILER	90.00 HMBTU/H	CO	3.3000 LB/H OIL 0.0370 LB/HMBTU OIL COMBUSTION CONTROLS	BACT	
		VOC	0.7000 LB/H OIL 0.0050 LB/HMBTU OIL	BACT	
		PH	1.2000 LB/H GAS 0.0130 LB/HMBTU GAS	BACT	
		SO2	2.1000 LB/H GAS 0.0230 LB/HMBTU GAS	NSPS	
		NOX	10.8000 LB/H GAS 0.1200 LB/HMBTU GAS 1% FIRING	BACT	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER TX-0660

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 06/01/1993

SOURCE TYPE CODE 5.5

(CONTINUED) NEDERLAND PROCESSING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... BASIS ... FCT EFF	
=====					
SAME PROCESS (CONTINUED)					
=====					
SULFUR PLANT	2.70 HHBTU/H GAS	CO	1.4000 LB/H GAS 0.0160 LB/HHBTU GAS COMBUSTION CONTROLS	BACT	
		VOC	0.2000 LB/H GAS 0.0080 LB/HHBTU GAS	BACT	
		SO2	2.2000 LB/H SCOT TAIL GAS TREAT.	BACT	
		NOX	0.3000 LB/H 0.1200 LB/HHBTU NONE	95.00 BACT	
		FLARE		TRACE SHOKELESS OPERATION NEGOTIABLE NONE TRACE SHOKELESS/STEAM INJECTION TRACE SHOKELESS OPERATION	BACT BACT BACT BACT
BOILER	170.00 HHBTU/H OIL	PH	8.9000 LB/H OIL 0.0520 LB/HHBTU OIL LIQUID OR GASEOUS FUEL	BACT	
		SO2	79.3000 LB/H OIL 0.4670 LB/HHBTU OIL 0.42% S FUEL	BACT	
		NOX	51.0000 LB/H OIL 0.3000 LB/HHBTU OIL LEA FIPING	BACT	
		CO	6.2000 LB/H OIL 0.0360 LB/HHBTU OIL COMBUSTION CONTROLS	BACT	
		VOC	1.2000 LB/H OIL 0.0070 LB/HHBTU OIL	BACT	
		PH	2.3000 LB/H GAS 0.0140 LB/HHBTU GAS LIQUID OR GASEOUS FUEL	BACT	
		SO2	4.2000 LB/H GAS 0.0250 LB/HHBTU GAS 0.1% GR H2S/DSCF	BACT	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

=====

ID NUMBER TK-0060

=====

SOURCE TYPE CODE 5.5

(CONTINUED) NEDERLAND PROCESSING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... A BASIS ... PCT EFF
SAHE PROCESS (CONTINUED)		NOX	20.4000 LB/H GAS 0.1200 LB/HBTU GAS	BACT
		CO	2.6000 LB/H GAS 0.0150 LB/HBTU GAS	BACT
		VOC	0.5000 LB/H GAS 0.0070 LB/HBTU GAS	BACT
VALVES -- GAS VAPOR, 396		VOC	2.1000 LB/H	BACT
VALVES -- LIGHT LIQUID, 268		VOC	0.9000 LB/H	BACT
VALVES -- HEAVY LIQUID, 357		VOC	0.2000 LB/H	BACT
FLANGES, 3650		VOC	2.1000 LB/H	BACT
OIL/WATER SEP		VOC	3.6000 LB/H	BACT
PUMPS -- LIGHT LIQUID, 50		VOC	2.0000 LB/H	BACT
PUMPS -- HEAVY LIQUID, 7		VOC	0.3000 LB/H	BACT
COOLING TOWER		VOC	3.6000 LB/H	BACT
STORAGE TANKS, 6	55.00 MEBL EA	VOC	7.6000 LB/H TOTAL EXTERNAL FLOATING ROOFS	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993
SOURCE TYPE CODE 5.5

ID NUMBER TX-0000

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

PETROLEUM REFINING - AUXILIARY

PETRACO VALLEY OIL & REFINING CO.
1201 DAIRY ASHFORD, SUITE 150

HOUSTON, TX

CAMERON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. TX-236
DETERMINATION MADE BY

EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/15/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT
HEATER, CRUDE CHARGE

THROUGHPUT
CAPACITY
427.00 HHBTU/H

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

PM	3.2000 LB/H 0.0070 LB/HHBTU	GAS FIRED, F.G. 02 CONTROL	BACT
SO2	6.8000 LB/H 0.0100 LB/HHBTU		NSPS
NOX	51.3000 LB/H 0.1200 LB/HHBTU	LCH 5 GAS (0.1 GR H2S/DSCF)	BACT
VOC	0.8000 LB/H 0.0020 LB/HHBTU	LEA FIRING, F.G. 02 CONTRL	BACT
CO	4.6000 LB/H 0.0100 LB/HHBTU	F.G. 02 CONTROL	BACT
HEATER, VACUUM CHARGE	219.00 HHBTU/H		
PM	1.7000 LB/H 0.0070 LB/HHBTU	GAS FIRED, F.G. 02 CONTRL.	BACT
SO2	3.5000 LB/H 0.0200 LB/HHBTU		NSPS
NOX	26.2000 LB/H 0.1200 LB/HHBTU	LCH 5 GAS (0.1 GR H2S/DSCF)	BACT
		LEA FIRING, F.G. 02 CONTRL	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
SOURCE TYPE CODE 5.5

ID NUMBER TX-0073

(CONTINUED) PETRACO VALLEY OIL & REFINING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAHE PROCESS (CONTINUED)				
COKER HEATER	401.00 MMBTU/H	VOC	0.4000 LB/H 0.0020 LB/MMBTU F.G. 02 CONTROL	BACT
		CO	2.3000 LB/H 0.0100 LB/MMBTU F.G. 02 CONTROL	BACT
		PH	3.0000 LB/H 0.0070 LB/MMBTU GAS FIRED, F.G. 02 CONTRL	BACT
		SO2	6.7000 LB/H 0.0200 LB/MMBTU LOW S GAS, (0.1 GR H2S/DSCF)	BACT
		NOX	48.1000 LB/H 0.1200 LB/MMBTU LEA FIRING, F.G. 02 CONTRL	BACT
FCCU REGENERATOR	24.90 MMBL/D	VOC	0.9000 LB/H 0.0020 LB/MMBTU F.G. 02 CONTROL	BACT
		CO	4.7000 LB/H 0.0100 LB/MMBTU F.G. 02 CONTROL	BACT
		PH	16.7000 LB/H 1.0000 LB/HLB COKE ESP	NSPS
		SO2	116.9000 LB/H S REDUCTION CATALYST	75.00 BACT
		NOX	39.3000 LB/H LEA FIRING, F.G. 02 CONTROL	85.00 BACT
HEATER, HYDROHEATER FEED	147.00 MMBTU/H	VOC	12.7000 LB/H F.G. 02 CONTROL	BACT
		CO	61.2000 LB/H 0.0500 X BY VOL. F.G. 02 CONTROL	NSPS
		PH	1.1000 LB/H 0.0070 LB/MMBTU GAS FIRED, F.G. 02 CONTRL	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER TX-0073

REVIEW STATUS: 04/01/1983

INITIAL REVIEW POST STARTUP

SOURCE TYPE CODE 5.5

(CONTINUED) PETRACO VALLEY OIL & REFINING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAKE PROCESS (CONTINUED)				
		SO2	2.6000 LB/H 0.0200 LB/HBTU	NSPS
		NOX	17.6000 LB/H 0.1200 LB/HBTU	BACT
		VOC	0.3000 LB/H 0.0600 LB/HBTU	BACT
		CO	1.7000 LB/H 0.0100 LB/HBTU	BACT
HEATER, HYDROCRACKER	352.00 HBTU/H	PH	2.7000 LB/H 0.0070 LB/HBTU	BACT
		SO2	6.1000 LB/H 0.0200 LB/HBTU	NSPS
		NOX	42.3000 LB/H 0.1200 LB/HBTU	BACT
		VOC	0.6000 LB/H 0.0020 LB/HBTU	BACT
		CO	4.1000 LB/H 0.0100 LB/HBTU	BACT
REGENERATOR, PLATFORMER CAT.		PH	TRACE NONE	BACT
		SO2	0.1000 LB/H	BACT
		NOX	TRACE NONE	BACT
		VOC	TRACE NONE	BACT
		CO	TRACE NONE	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

(CONTINUED) PETRACO VALLEY OIL & REFINING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, PLATFORM FEED	932.00 MBTU/H			
		PH	53.2000 LB/H 0.0070 LB/MBTU OIL FIRED, F.G. 02 CONTRL	BACT
		SO2	570.9000 LB/H 0.0200 LB/MBTU	BACT
		NOX	LOW S GAS, 0.7% S/LB 321.9000 LB/H 0.1200 LB/MBTU	BACT
		VOC	LEA FIRING, F.G. 02 CONTRL 5.3000 LB/H 0.0020 LB/MBTU	BACT
		CO	F.G. 02 CONTRL 26.6000 LB/H 0.0100 LB/MBTU	BACT
			F.G. 02 CONTRLS	
HEATER, PENEX ISCHER FEED	15.00 MBTU/H			
		PH	0.1000 LB/H 0.0070 LB/MBTU	BACT
		SO2	GAS FIRED, F.G. 02 CONTRL 0.3000 LB/H 0.0200 LB/MBTU	NSPS
		NOX	LOW S GAS, 0.1 GR H2S/DSCF 1.7000 LB/H 0.1200 LB/MBTU	BACT
		VOC	LEA FIRING, F.G. 02 CONTRL TRACE F.G. 02 CONTRL	BACT
		CO	0.2000 LB/H 0.0100 LB/MBTU F.G. 02 CONTRL	BACT
INCIN., SULFUR PLANT	48.00 MBTU/H			
		PH	0.4000 LB/H 0.0050 LB/MBTU	BACT
		SO2	NONE 26.0000 LB/H 0.0200 % BY VOL.	NSPS
		NOX	SULFUR PLANT, SULFUR RECOVERY 67.4000 LB/H 1.4000 LB/MBTU LEA FIRING, F.G. 02 CONTRL	99.90 BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER TX-0073

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 5.5

(CONTINUED) PETRACO VALLEY OIL & REFINING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
HEATER, HF ALK ISOSTRIPPER REBO*	233.00 MMBTU/H	VOC	0.1000 LB/H 0.0020 LB/MMBTU F.G. 02 CONTROL	BACT
		CO	0.4000 LB/H 0.0080 LB/MMBTU F.G. 02 CONTROL	BACT
		PM	1.7000 LB/H 0.0070 LB/MMBTU GAS FIRED, F.G. 02 CONTRL	BACT
		SO2	4.0000 LB/H 0.0200 LB/MMBTU LOW S GAS, 0.1 GR H2S/DSCF	NSPS
		NOX	28.0000 LB/H 0.1200 LB/MMBTU LEA FIRING, F.G. 02 CONTRL	BACT
		VOC	0.5000 LB/H 0.0020 LB/MMBTU F.G. 02 CONTROLS	BACT
		CO	2.7000 LB/H 0.0100 LB/MMBTU F.G. 02 CONTROL	BACT
		PM	0.1000 LB/H 0.0070 LB/MMBTU GAS FIRED, F.G. 02 CONTROL	BACT
		SO2	0.2000 LB/H 0.0200 LB/MMBTU LOW S GAS, 0.1 GR H2S/DSCF	BACT
		NOX	1.4000 LB/H 0.1200 LB/MMBTU LEA FIRING, F.G. 02 CONTRL	BACT
HEATER, BUTAHMER ISOMER	12.00 MMBTU/H	VOC	TRACE F.G. 02 CONTROL	BACT
		CO	0.1000 LB/H 0.0100 LB/MMBTU F.G. 02 CONTROL	BACT
		SO2	112.1000 LB/H NONE	
FLARE				

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/198

ID NUMBER TX-0073

SOURCE TYPE CODE 5.5

(CONTINUED) PETRACO VALLEY OIL & REFINING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAHE PROCESS (CONTINUED)				
BOILER	255.00 MBTU/H	NOX	78.8000 LB/H STEAM INJECTION	BACT
		VOC	3.3000 LB/H STEAM INJECTION	BACT
		CO	17.8000 LB/H STEAM INJECTION	BACT
		PH	0.0000 LB/H STEAM INJECTION	BACT
		PH	1.9000 LB/H 0.0070 LB/HBTU GAS FIRED, F.G. 02 CONTRL	BACT
		SO2	3.4000 LB/H 0.0100 LB/HBTU LOW S GAS, 0.1 GR H2S/DSCF	NSPS
		NOX	31.7000 LB/H 0.1200 LB/HBTU LEA FIRING, F.G. 02 CONTRL	BACT
		VOC	0.4000 LB/H 0.0020 LB/HBTU F.G. 02 CONTRL	BACT
		CO	2.3000 LB/H 0.0100 LB/HBTU F.G. 02 CONTRL	BACT
		PH	1.2000 LB/H 0.0070 LB/HBTU GAS FIRED, F.G. 02 CONTRL	BACT
HEATER, OIL	163.00 MBTU/H	SO2	2.8000 LB/H 0.0100 LB/HBTU LOW S GAS, 0.1 GR H2S/DSCF	NSPS
		NOX	19.6000 LB/H 0.1200 LB/HBTU LEA FIRING, F.G. 02 CONTRL	BACT
		VOC	0.4000 LB/H 0.0020 LB/HBTU F.G. 02 CONTRL	BACT
		CO	1.9000 LB/H 0.0100 LB/HBTU F.G. 02 CONTRL	BACT
		PH	1.2000 LB/H 0.0070 LB/HBTU GAS FIRED, F.G. 02 CONTRL	BACT
		SO2	2.8000 LB/H 0.0100 LB/HBTU LOW S GAS, 0.1 GR H2S/DSCF	NSPS
		NOX	19.6000 LB/H 0.1200 LB/HBTU LEA FIRING, F.G. 02 CONTRL	BACT
		VOC	0.4000 LB/H 0.0020 LB/HBTU F.G. 02 CONTRL	BACT
		CO	1.9000 LB/H 0.0100 LB/HBTU F.G. 02 CONTRL	BACT
		PH	1.2000 LB/H 0.0070 LB/HBTU GAS FIRED, F.G. 02 CONTRL	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

(CONTINUED) PETRACO VALLEY OIL & REFINING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, SCOT UNIT FEED	5.00 M ³ BTU/H	PM	TRACE NONE	BACT
		SO ₂	0.1000 LB/H 0.0100 LB/M ³ BTU	BACT
		NO _x	NONE 0.6000 LB/H 0.1200 LB/M ³ BTU	BACT
		VOC	TRACE NONE	BACT
		CO	0.1000 LB/H 0.0100 LB/M ³ BTU	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER TX-0073
 SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 130000.00 BPSD

COMPANY NAME/SITE LOCATION PHILLIPS PETROLEUM CO. BORGER, TX HUTCHINSON COUNTY

DETERMINATION IS BY EPA FOR A MODIFIED SOURCE.
 PERMIT NO. PSD-TX-102M-1
 DETERMINATION MADE BY EPA REGION VI (AGENCY)
 JOHN BUNYAK (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 10/15/81
 ESTIMATED DATE OF START-UP-- (214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. ENGINE, 2	650.00 HP EA	SO2	0.0320 LB/MMBTU GAS 0.8000 LB/MMBTU OIL		
		NOX	0.7% S IN OIL 0.1360 LB/MMBTU GAS 0.4000 LB/MMBTU OIL		
		VOC	02 MONITORING 0.0036 LB/MMBTU GAS 0.0070 LB/MMBTU OIL		
		CO	02 MONITORING 0.0170 LB/MMBTU GAS 0.0340 LB/MMBTU OIL		
		PM	02 MONITORING 0.0100 LB/MMBTU GAS 0.0700 LB/MMBTU OIL		
TURBINE, 2	3000.00 HP EA	SO2	0.0320 LB/MMBTU GAS 0.8000 LB/MMBTU OIL		
		NOX	0.7% S IN OIL 0.1360 LB/MMBTU GAS 0.4000 LB/MMBTU OIL		
		VOC	02 MONITORING 0.0036 LB/MMBTU GAS 0.0070 LB/MMBTU OIL		
			02 MONITORING		

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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REVIEW STATUS: 04/01/1983

ID NUMBER TX-0052

INITIAL REVIEW POST STARTUP
 SOURCE TYPE CODE 5.5

(CONTINUED) PHILLIPS PETROLEUM CO.

PROCESSES SUBJECT TO THIS PERMIT
THROUGHPUT CAPACITY
EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION
... & BASIS
... PCT EFF
SAME PROCESS (CONTINUED)

HEATERS, 4	32.00 MBTU/H	CO	0.0170 0.0340	19/MBTU GAS LB/MBTU OIL	02 MONITORING	0.0100 0.0700	LB/MBTU GAS LB/MBTU OIL
		SO2	0.0320	LB/MBTU			
		NOX	0.1360	GAS AS FUEL LB/MBTU	02 MONITORING		
		VOC	0.0036	LB/MBTU	02 MONITORING		
		CO	0.0170	LB/MBTU	02 MONITORING		
		PH	0.0100	LB/MBTU	GAS AS FUEL		
CRUDE OIL TANKS, 3	200.00 MBBL	VOC	1.8300	T/YR EA	EPA EQUIV. STAND & MAINT. PROG		
FUGITIVE EMISSIONS		VOC	140.0000	T/YR	EPA EQUIV. STAND & MAINT. PROG		
CO BOILERS, 2	370.00 MBTU/H	SO2	0.1000	LB/MBTU			
		NOX	1.9000	LB/MBTU	02 MONITORING		
		VOC	0.0014	LB/MBTU	02 MONITORING		
		CO	0.0170	LB/MBTU	02 MONITORING		
		PH	0.3100	LB/MBTU	GAS AS FUEL		
I.C. COMPRESSOR	720.00 HP	SO2	0.1000	G/HP-H			
		NOX	10.9000	G/HP-H	GAS AS FUEL		
		VOC	4.4200	G/HP-H			
		CO	1.3900	G/HP-H			
		PH	0.0200	G/HP-H	GAS AS FUEL		

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993
SOURCE TYPE CODE 5.5

ID NUMBER TX-0052

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(CONTINUED) PHILLIPS PETROLEUM CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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SAME PROCESS (CONTINUED)

NOTES -----
NATURAL GAS FIRED

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.	INITIAL REVIEW	POST STARTUP
	REVIEW STATUS: 04/01/1993	
PAGE G- 455	ID NUMBER TX-0052	SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 10000.00 BBL/D
 COMPANY NAME/SITE LOCATION PROCESS REFINERY CO. BAKERSFIELD, CA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. SJ-78-27 DATE OF PERMIT ISSUANCE-- 09/19/79
 DETERMINATION MADE BY EPA REGION IX ESTIMATED DATE OF START-UP--
 (AGENCY) MATT HABER (415)-974-8058
 (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VACUUM HEATER	25.00 MBTU/H	NOX	0.2700 LB/MBTU LOW NOX BURNERS	35.00
CRUDE HEATER	20.00 MBTU/H	NOX	0.2700 LB/MBTU LOW NOX BURNERS	35.00
BOILER, 2 EA	4.31 MBTU/H	NOX	0.2700 LB/MBTU LOW NOX BURNERS	35.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983 04/04/1984

SOURCE TYPE CODE 5.5

ID NUMBER CA-0013

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

50.00 MBPSD

MOBILE, AZ

COMPANY NAME/SITE LOCATION PROVIDENT ENERGY CO.

DATE OF PERMIT ISSUANCE-- 03/03/80
ESTIMATED DATE OF START-UP--
(415)-974-8038
(PHONE)

JIM HANSON
(AGENCY CONTACT PERSON)

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) AZP79-02
DETERMINATION MADE BY EPA REGION IX
(AGENCY)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

BOILER & HEATER

NOX 0.4300 LB/HRTU 2H AV
LOW NOX BURNERS
SO2
FUEL LIM:H2S-.16R/DSCF,S-.42MT

CLAUS SULFUR RECOVERY UNIT

H2S
SCOT TAIL GAS UNIT

FCC UNIT & CATALYST REGEN.

PH 1.0000 LB/HLB COKE BURNED
3 STAGE CATALYST SEP. & ESP
CO
CO BOILER
SO2
FUEL LIM:H2S-.16R/DSCF,S-.12MT

NOTES -----
BACT RESOLUTION: REFINERY FUEL OIL WILL BE FILTERED TO REDUCE PH. 1) FACILITY: 50000 BBL/STREAM DAY 2) LIMITS DETERMINED BY TE
CHNOLOGY AND NSPS CONSIDERATIONS. CONTROL OF HC EMISSIONS FROM FACILITY INCLUDE INSPECTION/MAINTENANCE PROGRESS.
COVERED OIL/WATER SEPARATOR, VAPOR RECOVERY ON LIGHT GASOLINE TANKS, AND DOUBLE SEALED FLOATING ROOF TANKS ON OTHER GASOLINE T
ANKS.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 5.5

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

ID NUMBER AZ-0001

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 100.00 MPPSD

COMPANY NAME/SITE LOCATION SABER REFIN. 6560 UPRIVER ROAD CORPUS CHRISTI, TX NEUCES COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. PERMIT NO. (REGION FILE NO.) PSD-TX-324 JOHN BUNYAK DATE OF PERMIT ISSUANCE-- 05/08/81 ESTIMATED DATE OF START-UP-- (214)-767-1594 (PHONE) DETERMINATION MADE BY EPA REGION VI (AGENCY) (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS

HEATERS, 5 365.00 MPPSD/H PH 0.0100 LB/MPPSDU REF. FUEL GAS BACT

SO2 0.0140 LB/MPPSDU FIRE REFINERY FLUE GAS NSPS NOX 0.1200 LB/MPPSDU LOW NOX BURNERS BACT CO 0.0160 LB/MPPSDU EFFICIENT COMBUSTION BACT

FURNACES, 5 179.00 MPPSD/H PH 0.0100 LB/MPPSDU REF. FUEL GAS BACT SO2 0.0140 LB/MPPSDU REF. FUEL GAS NSPS NOX 0.1200 LB/MPPSDU LOW NOX BURNERS BACT CO 0.0160 LB/MPPSDU EFFICIENT COMBUSTION BACT

REBOILERS, 2 153.00 MPPSD/H PH 0.0100 LB/MPPSDU REF. FUEL GAS BACT SO2 0.0140 LB/MPPSDU REF. FUEL GAS NSPS NOX 0.1200 LB/MPPSDU LOW NOX BURNERS BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP REVIEW STATUS: 04/01/1993 SOURCE TYPE CODE 5.5

ID NUMBER TX-0041

PROCESSES SUBJECT
TO THIS PERMIT

... & BASIS
... PCT EFF

SAME PROCESS (CONTINUED)

REFORMS, 2

356.00 MBTU/h

BACT

HEAVY OIL CRACKING UNIT

46500.00 BPSD

BACT

3-STAGE CYCLONE
S02 178.0000 PPM
FLUE GAS DESULFURIZATION

1100

NSPS

NOX 203.0000 LB/H NO CONTROLS AVAILABLE

FACT

BACT

NOA	103.0000	NO CONTROLS AVAILABLE
CO	178.0000 PPH	

NOTES -----
H₂S CONTENT OF FLUE GAS WILL BE LIMITED TO 0.054 GRAINS/DSCF.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

(M) INDICATES DATA WAS TRIPlicated FOR THIS TABLE.

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ID NUMBER TX-C041

SOURCE	TYPE	CODE	5.5
...	...	...	...

55

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 67.00 HBPSD

COMPANY NAME/SITE LOCATION SIGHORE REFIN. CO. P.O. BOX 20267 SAN ANTONIO, TX 78220 LIVE OAK COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. PERMIT NO. (REGION FILE NO.) PSD-TX-331 DATE OF PERMIT ISSUANCE-- 12/10/80 ESTIMATED DATE OF START-UP-- (214)-767-1594 DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, #1 CRUDE	59.50 MMBTU/H	PM	2.7500 LB/H EFFICIENT COMBUSTION	BACT
		SO2	22.1800 LB/H	BACT
		NOX	0.7% S FUEL OIL 9.3400 LB/H	BACT
		CO	EFFICIENT COMBUSTION 2.1300 LB/H	BACT
HEATER, LUBE CRUDE	10.80 MMBTU/H	PM	0.0600 LB/H EFFICIENT COMBUSTION	BACT
		SO2	0.2300 LB/H	BACT
		NOX	0.7% S FUEL OIL 2.4800 LB/H	BACT
		CO	EFFICIENT COMBUSTION 0.1800 LB/H	BACT
FCCU REGENERATOR	40.00 HBPSD	PM	12.0000 LB/H	NSPS
		SO2	ESP 205.4200 LB/H	90.00 BACT
		NOX	HIGH TEMP REGEN. 37.0100 LB/H	BACT
			HIGH TEMP REGEN.	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP REVIEW STATUS: 04/01/1993 SOURCE TYPE CODE 5-5 ID NUMBER TX-0039

(CONTINUED) SIGHORE REFIN. CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
REBOILER, ISOSTRIPPER	48.80 MMBTU/H	CO	90.1200 LB/H HIGH TEMP REGEN.	BACT
		PM	3.3100 LB/H EFFICIENT COMBUSTION	BACT
		SO ₂	38.6000 LB/H 0.7% S FUEL OIL	BACT
		NO _x	32.8700 LB/H EFFICIENT COMBUSTION	BACT
		CO	1.6500 LB/H EFFICIENT COMBUSTION	BACT
BOILER	167.60 MMBTU/H	PM	11.3600 LB/H EFFICIENT COMBUSTION	BACT
		SO ₂	132.7200 LB/H 0.7% S FUEL OIL	BACT
		NO _x	113.0400 LB/H EFFICIENT COMBUSTION	BACT
		CO	9.6800 LB/H EFFICIENT COMBUSTION	BACT
		PM	2.7100 LB/H EFFICIENT COMBUSTION	BACT
HEATER, VESSEKAKER CHARGE	40.00 MMBTU/H	SO ₂	31.6400 LB/H 0.7% S FUEL OIL	BACT
		NO _x	26.9500 LB/H EFFICIENT COMBUSTION	BACT
		CO	1.3500 LB/H EFFICIENT COMBUSTION	BACT
		PM	1.6000 LB/H EFFICIENT COMBUSTION	BACT
		SO ₂	19.4900 LB/H 0.7% S FUEL, SCRUB TO .1 GR/DSCF	BACT
HEATER, VACUUM DISTILLATION	96.50 MMBTU/H	NO _x	20.8000 LB/H EFFICIENT COMBUSTION	BACT
		CO	2.5000 LB/H EFFICIENT COMBUSTION	BACT
		PM	1.6000 LB/H EFFICIENT COMBUSTION	BACT
		SO ₂	19.4900 LB/H 0.7% S FUEL, SCRUB TO .1 GR/DSCF	BACT
		NO _x	20.8000 LB/H EFFICIENT COMBUSTION	BACT
HEATER, #2 CRUDE UNIT	18.10 MMBTU/H	CO	2.5000 LB/H EFFICIENT COMBUSTION	BACT
		PM	1.6000 LB/H EFFICIENT COMBUSTION	BACT
		SO ₂	19.4900 LB/H 0.7% S FUEL, SCRUB TO .1 GR/DSCF	BACT
		NO _x	20.8000 LB/H EFFICIENT COMBUSTION	BACT
		CO	2.5000 LB/H EFFICIENT COMBUSTION	BACT

(*) INDICATES DATA WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 06/01/1983

ID NUMBER TX-0039

SOURCE TYPE CODE 5.5

(CONTINUED) SIGMORE REFIN. CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
HEATER, VISBREAKER CHARGE	40.00 MMBTU/H	PM	0.2700 LB/H	BACT
		SO2	EFFICIENT COMBUSTION	BACT
		NOX	0.0100 LB/H	BACT
		CO	0.7% S FUEL OIL	BACT
HEATER, CRUDE CHARGE	130.40 MMBTU/H	PM	4.1600 LB/H	BACT
		SO2	EFFICIENT COMBUSTION	BACT
		NOX	0.3100 LB/H	BACT
		CO	EFFICIENT COMBUSTION	BACT
REBOILER, NAPHTHA STABILIZER	19.50 MMBTU/H	PM	2.7100 LB/H	BACT
		SO2	EFFICIENT COMBUSTION	BACT
		NOX	31.6400 LB/H	BACT
		CO	0.7% S FUEL OIL	BACT
HEATER, NAPHTHA HDS CHARGE	36.40 MMBTU/H	PM	26.9500 LB/H	BACT
		SO2	EFFICIENT COMBUSTION	BACT
		NOX	1.3500 LB/H	BACT
		CO	EFFICIENT COMBUSTION	BACT
HEATER, VISBREAKER CHARGE	40.00 MMBTU/H	PM	8.8300 LB/H	BACT
		SO2	EFFICIENT COMBUSTION	BACT
		NOX	103.1400 LB/H	BACT
		CO	0.7% S FUEL OIL	BACT
HEATER, CRUDE CHARGE	130.40 MMBTU/H	PM	87.8400 LB/H	BACT
		SO2	EFFICIENT COMBUSTION	BACT
		NOX	4.4200 LB/H	BACT
		CO	EFFICIENT COMBUSTION	BACT
REBOILER, NAPHTHA STABILIZER	19.50 MMBTU/H	PM	1.3200 LB/H	BACT
		SO2	EFFICIENT COMBUSTION	BACT
		NOX	15.4200 LB/H	BACT
		CO	0.7% S FUEL OIL	BACT
HEATER, NAPHTHA HDS CHARGE	36.40 MMBTU/H	PM	13.1400 LB/H	BACT
		SO2	EFFICIENT COMBUSTION	BACT
		NOX	0.6600 LB/H	BACT
		CO	EFFICIENT COMBUSTION	BACT
HEATER, VISBREAKER CHARGE	40.00 MMBTU/H	PM	0.1900 LB/H	BACT
		SO2	EFFICIENT COMBUSTION	BACT
		NOX	1.0000 LB/H	BACT
		CO	FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

ID NUMBER TX-0039

SOURCE TYPE CODE 5.5

(CONTINUED) SIGHORE REFIN. CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
REBOILER, NAPHTHA SPLITTER	27.30 MMBTU/H	NOX	4.4600 LB/H	BACT
		CO	EFFICIENT COMBUSTION	
			0.6300 LB/H	BACT
			EFFICIENT COMBUSTION	
		PH	0.1400 LB/H	BACT
		SO ₂	EFFICIENT COMBUSTION	
			0.7500 LB/H	BACT
			FUEL GAS SCRUB. TO 0.1 GR/DSCF	
		NOX	3.3400 LB/H	BACT
			EFFICIENT COMBUSTION	
		CO	0.4700 LB/H	BACT
			EFFICIENT COMBUSTION	
HEATER, 1ST REFORMER	59.50 MMBTU/H	PH	0.3100 LB/H	BACT
			EFFICIENT COMBUSTION	
		SO ₂	1.6300 LB/H	BACT
			FUEL GAS SCRUB. TO 0.1 GR/DSCF	
		NOX	7.2900 LB/H	BACT
		CO	1.0300 LB/H	BACT
			EFFICIENT COMBUSTION	
		PH	0.2700 LB/H	BACT
			EFFICIENT COMBUSTION	
		SO ₂	1.4500 LB/H	BACT
			FUEL GAS SCRUB. TO 0.1 GR/DSCF	
		NOX	6.4700 LB/H	BACT
			EFFICIENT COMBUSTION	
		CO	0.9200 LB/H	BACT
			EFFICIENT COMBUSTION	
HEATER, 2ND REFORMER	52.80 MMBTU/H	PH	0.1400 LB/H	BACT
			EFFICIENT COMBUSTION	
		SO ₂	0.7200 LB/H	BACT
			FUEL GAS SCRUB. TO 0.1 GR/DSCF	
		NOX	3.2300 LB/H	BACT
		CO	0.4600 LB/H	BACT
			EFFICIENT COMBUSTION	
		PH	0.1400 LB/H	BACT
			EFFICIENT COMBUSTION	
		SO ₂	0.7200 LB/H	BACT
			FUEL GAS SCRUB. TO 0.1 GR/DSCF	
		NOX	3.2300 LB/H	BACT
			EFFICIENT COMBUSTION	
		CO	0.4600 LB/H	BACT
			EFFICIENT COMBUSTION	
HEATER, 3RD REFORMER	26.40 MMBTU/H	PH	0.1400 LB/H	BACT
			EFFICIENT COMBUSTION	
		SO ₂	0.7200 LB/H	BACT
			FUEL GAS SCRUB. TO 0.1 GR/DSCF	
		NOX	3.2300 LB/H	BACT
		CO	0.4600 LB/H	BACT
			EFFICIENT COMBUSTION	
		PH	0.1400 LB/H	BACT
			EFFICIENT COMBUSTION	
		SO ₂	0.7200 LB/H	BACT
			FUEL GAS SCRUB. TO 0.1 GR/DSCF	
		NOX	3.2300 LB/H	BACT
			EFFICIENT COMBUSTION	
		CO	0.4600 LB/H	BACT
			EFFICIENT COMBUSTION	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER TX-0039

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 5.5

(CONTINUED) SIGHORE REFIN. CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... BASIS ... FCT EFF
HEATER, 4TH REFORMER	13.20 MTBTU/H	PM	0.0700 LB/H EFFICIENT COMBUSTION	BACT
		SO2	0.3600 LB/H FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	1.6200 LB/H EFFICIENT COMBUSTION	BACT
		CO	0.2300 LB/H EFFICIENT COMBUSTION	BACT
REBOILER, REFORMER STABILIZER	16.40 MTBTU/H	PM	0.0600 LB/H EFFICIENT COMBUSTION	BACT
		SO2	0.4500 LB/H FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	2.0100 LB/H EFFICIENT COMBUSTION	BACT
		CO	0.2600 LB/H EFFICIENT COMBUSTION	BACT
REBOILER, KEROSENE HDS STRIPPER	13.60 MTBTU/H	PM	0.0700 LB/H EFFICIENT OPERATION	BACT
		SO2	0.3700 LB/H FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	1.6700 LB/H EFFICIENT COMBUSTION	BACT
		CO	0.2400 LB/H EFFICIENT COMBUSTION	BACT
HEATER, GAS OIL HDS CHARGE	97.60 MTBTU/H	PM	0.5000 LB/H EFFICIENT COMBUSTION	BACT
		SO2	2.6600 LB/H FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	11.9800 LB/H EFFICIENT COMBUSTION	BACT
		CO	1.7000 LB/H EFFICIENT COMBUSTION	BACT
REBOILER, DEETHANIZER	25.20 MTBTU/H	PM	0.1300 LB/H EFFICIENT COMBUSTION	BACT
		SO2	0.6900 LB/H FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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REVIEW STATUS: 06/01/1993

ID NUMBER TX-0039

SOURCE TYPE CODE 5.5

(CONTINUED) SIGHTS REFIN. CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... BASIS ... PCT EFF
SAFETY PROCESS (CONTINUED)		NOX	3.0900 LB/H	BACT
		CO	0.4400 LB/H	BACT
			EFFICIENT COMBUSTION	
			EFFICIENT COMBUSTION	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

ID NUMBER TX-0039

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION SONIO ALASKA PETROLEUM CORP.
ENDICOTT DEVELOPMENT

NEAR PRUDHOE BAY, AK

DETERMINATION IS BACT
PERMIT NO. 6436-AA009
DETERMINATION MADE BY

DATE OF PERMIT ISSUANCE-- 10/25/84
ESTIMATED DATE OF START-UP-- 1986
(907)-465-2666
(PHONE)

DAVE ESTES
(AGENCY CONTACT PERSON)

ALASKA DEC
(AGENCY)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... A BASIS ... PCT EFF
TURBINE, GAS	1000.00 HP, NOTE #1	NOX	100.0000 PPM AT 15% O2, DRY LO NOX BURNERS	BACT
TURBINE, GAS	1000.00 HP, NOTE #2	NOX	125.0000 PPM AT 15% O2, DRY LO NOX BURNERS	BACT
TURBINE, GAS	127.00 MHP TOTAL	VE SO2 CO	10.0000 % OPACITY 25.0000 PPM IN FUEL GAS 109.0000 LB/MMSCF FUEL	BACT BACT BACT
PROCESS HEATER, SEE NOTE #3	5.00 MMSTU/H	NOX	0.0500 LB/MMSTU LO NOX BURNERS	BACT
PROCESS HEATER, SEE NOTE #2	5.00 MMSTU/H	NOX	0.1600 LB/MMSTU	BACT
PROCESS HEATER	202.00 MMSTU/H TOTAL	CO VE SO2	0.0180 LB/MMSTU 10.0000 % OPACITY 25.0000 PPM IN FUEL GAS	BACT BACT BACT
I.C. ENGINES, STATIONARY	10.00 MHP TOTAL	NOX VE	12.0000 G/HP-H AT 15% O2, DRY 10.0000 % OPACITY	BACT BACT
INCINERATOR	1500.00 LB/H SLUDGE	PM	0.1000 GR/DSCF AT 12% O2	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

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ID NUMBER AK-0009

SOURCE TYPE CODE 5.5

(CONTINUED) SOHIO ALASKA PETROLEUM CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... 4 BASIS ... PCT EFF

SAME PROCESS (CONTINUED)				

VE 10.0000 % OPACITY

BACT

NOTES -----
NOTE #1 - THOSE GREATER THAN. NOTE #2 - THOSE LESS THAN. NOTE #3 - THOSE GREATER THAN OR EQUAL TO.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER AK-C009

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 31500.00 BPSD
 COMPANY NAME/SITE LOCATION SOUTHERN UNION REFIN. 5 MI SE LOVINGTON LOVINGTON, NM LEA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. NM-350
 DETERMINATION MADE BY EPA REGION VI (AGENCY)
 JOHN BUNYAK (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 10/05/81
 ESTIMATED DATE OF START-UP-- (214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, 13 EA	85.00 MMBTU/H	PM	0.0050 LB/MMBTU GAS FUEL GAS OR LOW SULFUR OIL	BACT
		SO2	0.0270 LB/MMBTU	BACT
		NOX	0.1200 LB/MMBTU FUEL OIL OR NATURAL GAS LOW NOX BURNERS	BACT
SULFUR RECOVERY UNIT		SO2	0.0400 LB/H CLAUS UNIT	BACT

NOTES -----
 13 HEATERS AND 1 SULFUR RECOVERY UNIT.

APPENDIX -- DETAILED SOURCE LISTING

05/21/1983

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION STANDARD OIL

LIMA, OH

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 03-1138
DETERMINATION MADE BY OHIO EPA NWD
(AGENCY)

DATE OF PERMIT ISSUANCE-- 03/08/82
ESTIMATED DATE OF START-UP-- 1984
(419)-352-8461
(PHONE)

CHUCK HULL
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER A	78.00 MMBTU/H	PM	0.0140 LB/MMBTU	
		SO2	2-STAGE COMBUST. & LOW NOX BURN	30.00
		NOX	0.0230 LB/MMBTU	
		CO	0.1470 LB/MMBTU	
			0.0150 LB/MMBTU	
HEATER B	164.00 MMBTU/H	PM	0.0140 LB/MMBTU	
		SO2	2-STAGE COMBUST. & LOW NOX BURN	30.00
		NOX	0.0230 LB/MMBTU	
		CO	0.1470 LB/MMBTU	
			0.0150 LB/MMBTU	
HEATER C	44.00 MMBTU/H	PM	0.0140 LB/MMBTU	
		SO2	2-STAGE COMBUST. & LOW NOX BURN	30.00
		NOX	0.0230 LB/MMBTU	
		CO	0.1470 LB/MMBTU	
			0.0150 LB/MMBTU	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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REVIEW STATUS: 04/01/1983

ID NUMBER CH-0030

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 63.00 HHBTU/H

COMPANY NAME/SITE LOCATION SUNDOCO

MARCUS HOOK, PA

DELAWARE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 78PA10

DETERMINATION MADE BY EPA REGION III (AGENCY)

VERNON BUTLER (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/20/79
ESTIMATED DATE OF START-UP-- 1980
(215)-597-2711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

HEATER/BOILER

63.00 HHBTU/H

S02 56.0000 LB/H
1% SULFUR FUEL OIL
NOX 23.0000 LB/H

BACT BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER PA-0001

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION TENNECO

CHALMETTE, LA

ST. BERNARD PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. PSD-LA-199

DETERMINATION MADE BY EPA REGION VI (AGENCY)

TOM DIGGS (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/23/81
ESTIMATED DATE OF START-UP-- 1984
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

HEATERS, 26

267.00 MBTU/H

CO

0.0210 LB/MBTU GAS
0.0300 LB/MBTU OIL
O2 MONITORING

BACT

BOILERS, 13

160.00 MBTU/H

CO

0.0210 LB/MBTU GAS
0.0300 LB/MBTU OIL
O2 MONITORING

BACT

CO BOILER

350.00 MBTU/H

CO

0.0210 LB/MBTU GAS
0.0300 LB/MBTU OIL
O2 MONITORING

BACT

FLARES, 2

6.60 MBTU/H

CO

1.6000 LB/H EA
NONE

BACT

SULFUR PLANT

6.60 MBTU/H

CO

0.0360 LB/MBTU
NONE

BACT

FCCU REGEN

42000.00 BPSD

CO

212.8000 LB/H
COMPLIANCE M/NSPS

NSPS

NOTES

26 HEATERS RANGING IN SIZE FROM 11 TO 287 MBTU/HR. 13 BOILERS RANGING IN SIZE FROM 24 TO 160 MBTU/HR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER LA-0022

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION TESORO ALASKA PETROLEUM CO.

NEAR KENAI, AK

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 8323-AA002

ALASKA DEC
(AGENCY)

DAVE ESTES
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/15/84
ESTIMATED DATE OF START-UP-- 1985
(907)-465-2666
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

SULFUR REC. UNIT

14.00 LT/D

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

SO2 250.0000 PPM, DRY
SRU

VARIOUS SIZ*

NOX 0.0800 LB/MMBTU
LO NOX BURNERS

BACT

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS:

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ID NUMBER AK-0007

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFININGS - AUXILIARY 100000.00 BPSD

COMPANY NAME/SITE LOCATION TEXACO, INC. CONVENT, LA ST. JAMES PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. (REGION FILE NO.) PSD-LA-420
 DETERMINATION MADE BY EPA REGION VI (AGENCY)
 JOHN BUNYAK (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 11/16/81
 ESTIMATED DATE OF START-UP--
 (214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS, 15 EA	198.00 MBTU/H	CO	0.0300 LB/MBTU FLUE GAS O2 MONITOR LOW EXCESS AIR	BACT
ACID GAS INCIN.	8.00 MBTU/H	CO	0.9300 LB/MBTU LOW EXCESS AIR, FLUE GAS O2 MONITOR	BACT
ERG INCINERATOR	13.10 MBTU/H	CO	0.0200 LB/MBTU LOW EXCESS AIR, FLUE GAS O2 MONITOR	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1993
 SOURCE TYPE CODE 5.5

ID NUMBER LA-0007

APPENDIX -- DETAILED SOURCE LISTING

05/21/1995

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 140000.00 BPSD

COMPANY NAME/SITE LOCATION TEXACO, INC. CONVENT, LA ST. JAMES PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 04/23/81
 PERMIT NO. (REGION FILE NO.) PSD-LA-378 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION VI (214)-767-1594
 (AGENCY) JOHN BUNYAK (PHONE)
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... BASIS ... PCT EFF
HTU-CRU FLUE GAS COOLER	670.00 MTBTU/H	CO	0.0200 LB/MTBTU HIGH TEMP REGENERATION (HTR)	BACT
INCIN., 3 EA	13.10 MTBTU/H	CO	0.0200 LB/MTBTU HIGH TEMP REGENERATION (HTR)	BACT
POWER RECOVERY STACK		CO	LIMIT EMISSIONS TO 500 PPM	NSPS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1993

SOURCE TYPE CODE 5.5

ID NUMBER LA-0024

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

PETROLEUM REFINING - AUXILIARY

PORT ARTHUR, TX 77640

JEFFERSON COUNTY

TEXACO, INC.
P.O. BOX 712

COMPANY NAME/SITE LOCATION

DETERMINATION IS BACK FOR A MODIFIED SOURCE.

PERMIT NO. TX-141
DETERMINATION MADE BY

EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/20/79
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FCCU	170.00 MBBL/D	S02	406.3000 LB/H SOX REDUCTION CATALYST	NSPS 75.00
HEATER #1407	30.74 SCFH	S02	4.5000 LB/H 0.1 GR/DSCF, AMINE SCRUB.	NSPS
FLUE GAS SCRUB./SULFUR RECOVERY		S02	1.1000 LB/H SEE NOTE TAIL GAS TREATING UNIT	NSPS 99.97

NOTES -----
NOTE: F.G. SCRUB./S RECOVERY EMISSIONS ARE INCREASE ONLY OVER EXISTING CONDITIONS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 5.5

ID NUMBER TX-0064

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION TOSCO CORP.

BAKERSFIELD, CA

DETERMINATION IS FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) SJ-78-26
DETERMINATION MADE BY EPA REGION IX
(AGENCY)

DATE OF PERMIT ISSUANCE-- 06/18/80
ESTIMATED DATE OF START-UP--
(315)-974-8066
(PHONE)

DAVID SOLOMON
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

CO BOILER

92700.00 LB/H

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

CO

45.7000 LB/H

LAER

SO2

0.5000 % S FUEL

BOILER BURNS CO EMITTED FROM TCC UNIT

LAER

NOX

41.0000 LB/H

SULFUR IN AUXILIARY FUEL OIL

BACT

COMBUSTION MODIFICATION BASED ON 0.3 LB/H₂STU

NOTES

THRU-O FOR CATALYTIC CRACKING. INSTALLATION OF CO BOILER ON REFINERY TCC' UNIT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 04/04/1984

ID NUMBER CA-0007

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION TOSCO CORP. MARTINEZ, CA

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 02/19/82
 PERMIT NO. 27769 ESTIMATED DATE OF START-UP-- 1983
 DETERMINATION MADE BY BAY AREA AQCD (AGENCY) JIM KARAS (AGENCY CONTACT PERSON) (415)-771-6000 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FURNACE, REFINERY PROCESS, 2 TO*	119.00 H ³ BTU/H SEE*	NOX	40.0000 PPM AT 3% O ₂ LOW NOX BURNERS/1 SCR UNIT FOR BOTH FURNACES	BACT 70.00
FURNACE, REFINERY PROCESS	40.00 H ³ BTU/H	NOX	40.0000 PPM AT 3% O ₂ LOW NOX BURNERS / SCR	BACT 70.00

NOTES -----
 BURNING REFINERY FUEL GAS WITH HEAT VALUE OF 1025 BTU/CF. NOTE -- THROUGH PUT CAPACITY IS TOTAL CAPACITY. ONE IS 67. H³BTU/H.
 THE OTHER IS 52. H³BTU/H.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/19/1984
 ID NUMBER CA-0046A SOURCE TYPE CODE 5-5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 10000.00 BBL/D

COMPANY NAME/SITE LOCATION UNI OIL

INGLESIDE, TX

SAN PATRICIO COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-229
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/12/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

HEATER, VACUUM

66.65 M³TU/H

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

S02	1.2700 LB/H 0.0190 LB/M ³ TU FUEL GAS: 0.1 GR/DSCF H ₂ S	NSPS
PH	1.5100 LB/H 0.0230 LB/M ³ TU COMBUSTION CONTROL	BACT
NOX	11.6000 LB/H 0.1740 LB/M ³ TU COMBUS. CONTROL/LOW NOX BURN.	BACT
CO	1.6700 LB/H 0.0250 LB/M ³ TU COMBUSTION CONTROL	BACT
VOC	0.1600 LB/H 0.0024 LB/M ³ TU COMBUSTION CONTROL	BACT
FCC UNIT	17000.00 BBL/D	
S02	64.1000 LB/H F. G. :0.1 GR/DSCF H ₂ S	NSPS
PH	12.0000 LB/H 1.0000 LB/HLB COKE BURN OFF ESP	NSPS
NOX	29.4000 LB/H COMBUS. CONTRL. & LOW NOX BURN.	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER TX-0061

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 5.5

(CONTINUED) UNIT OIL

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
HEATER, ISOSTRIPPER	36.24 MMBTU/H	CO	89.1000 LB/H HIGH TEMP. REGENERATION	NSPS
		VOC	2.6000 LB/H COMBUSTION CONTROL	BACT
		SO2	0.6300 LB/H 0.0790 LB/MMBTU F.G. : 0.01 GR/DSCF H2S	NSPS
		PM	0.6700 LB/H 0.0230 LB/MMBTU COMBUSTION CONTROL	BACT
		NOX	6.8500 LB/H 0.1790 LB/MMBTU CRYST. CONTRL./LOW NOX BURN.	BACT
		CO	1.1100 LB/H 0.0290 LB/MMBTU COMBUSTION CONTROL	BACT
		VOC	0.1600 LB/H 0.0042 LB/MMBTU COMBUSTION CONTROL	BACT
		SO2	39.7000 LB/H NO CONTROL	BACT
		NOX	0.01 : 3 LB/H NO CONTROL	BACT
		SO2	0.2400 LB/H F.G. : 0.1 GR/DSCF H2S	NSPS
REGENERATOR, HYDROTREATER CATAL*	161.00 MMBTU/H	PM	0.7900 LB/H COMBUSTION CONTROL	BACT
		SO2	1.9000 LB/H 0.0120 LB/MMBTU F.G. : 0.1 GR/DSCF	NSPS
		PM	0.0790 LB/H 0.0005 LB/MMBTU COMBUSTION CONTROL	BACT
		NOX	43.8000 LB/H 0.2700 LB/MMBTU CRYST. CONTRL./LOW NOX BURN.	BACT
		CO	1.1100 LB/H 0.0290 LB/MMBTU COMBUSTION CONTROL	BACT
		VOC	0.1600 LB/H 0.0042 LB/MMBTU COMBUSTION CONTROL	BACT
		SO2	39.7000 LB/H NO CONTROL	BACT
		NOX	0.01 : 3 LB/H NO CONTROL	BACT
		SO2	0.2400 LB/H F.G. : 0.1 GR/DSCF H2S	NSPS
		PM	0.7900 LB/H COMBUSTION CONTROL	BACT
HEATER, REFORMER	161.00 MMBTU/H	SO2	1.9000 LB/H 0.0120 LB/MMBTU F.G. : 0.1 GR/DSCF	NSPS
		PM	0.0790 LB/H 0.0005 LB/MMBTU COMBUSTION CONTROL	BACT
		NOX	43.8000 LB/H 0.2700 LB/MMBTU CRYST. CONTRL./LOW NOX BURN.	BACT
		CO	1.1100 LB/H 0.0290 LB/MMBTU COMBUSTION CONTROL	BACT
		VOC	0.1600 LB/H 0.0042 LB/MMBTU COMBUSTION CONTROL	BACT
		SO2	39.7000 LB/H NO CONTROL	BACT
		NOX	0.01 : 3 LB/H NO CONTROL	BACT
		SO2	0.2400 LB/H F.G. : 0.1 GR/DSCF H2S	NSPS
		PM	0.7900 LB/H COMBUSTION CONTROL	BACT
		NOX	43.8000 LB/H 0.2700 LB/MMBTU CRYST. CONTRL./LOW NOX BURN.	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

ID NUMBER TX-0061

SOURCE TYPE CODE 5.5

(CONTINUED) UNI OIL

PROCESSES SUBJECT TO THIS PERMIT
THROUGHPUT CAPACITY
EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION
... & BASIS
... PCT EFF
SAME PROCESS (CONTINUED)

HEATER, HDS	40.00 MMBTU/H	POLLUTANT EMITTED	CO	6.7500 LB/H 0.0420 LB/MMBTU COMBUSTION CONTROL	BACT
		VOC	0.8000 LB/H 0.0050 LB/MMBTU COMBUSTION CONTROL	BACT	
		S02	0.4800 LB/H 0.0120 LB/MMBTU F.G. : 0.1 GR/DSCF H2S	NSPS	
		PM	1.4300 LB/H 0.0360 LB/MMBTU COMBUSTION CONTROL	BACT	
		NOX	10.9000 LB/H 0.2700 LB/MMBTU CHST. CONTRL./LCW NOX BURN.	BACT	
		CO	1.6700 LB/H 0.0420 LB/MMBTU COMBUSTION CONTROL	BACT	
		VOC	0.1600 LB/H 0.0040 LB/MMBTU COMBUSTION CONTROL	BACT	
		S02	0.7900 LB/H 0.0077 LB/MMBTU F.G. : 0.1 GR/DSCF	NSPS	
BOILER, PACKAGE	103.24 MMBTU/H	PM	1.5900 LB/H 0.0150 LB/MMBTU COMBUSTION CONTROL	BACT	
		NOX	7.9400 LB/H 0.0760 LB/MMBTU COMBUSTION CONTROL	BACT	
		CO	0.7100 LB/H 0.0069 LB/MMBTU COMBUSTION CONTROL	BACT	
		VOC	0.0600 LB/H 0.0006 LB/MMBTU COMBUSTION CONTROL	BACT	

NOTES
THE NEW FACILITY WILL NOT INCREASE THE REFINERY'S CRUDE HANDLING CAPACITY, BUT WILL ENABLE THE REFINERY TO MAKE PREMIUM UNLEAD ED GASOLINE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

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ID NUMBER TX-0061

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION UNION OIL ROMEOVILLE, IL

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. 83 01 0013
 DETERMINATION MADE BY ILLINOIS EPA (AGENCY)
 CHRIS ROMAINE (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 06/09/83
 ESTIMATED DATE OF START-UP-- 1985
 (217)-782-2113 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, W/AIR PREHEAT, 2 TOTAL	184.00 M ³ BTU/H	NOX	0.1600 LB/M ³ BTU EQUIPMENT DESIGN, EXCESS AIR ANALYZERS	BACT
HEATER, W/O AIR PERHEAT, 3 EA	25.00 M ³ BTU/H MAX	NOX	0.1300 LB/M ³ BTU EQUIPMENT DESIGN, EXCESS AIR ANALYZERS	BACT

NOTES -----
 PROJECT WAS NOT A MAJOR MODIFICATION FOR SO₂. SO₂ EMISSIONS GOVERNED BY NSPS. ALSO STATE ID NUMBER 197 090 AAI.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 08/21/1984
 SOURCE TYPE CODE 5.5

ID NUMBER IL-0028

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE
PETROLEUM REFINING - AUXILIARY
30000.00 BPSD

COMPANY NAME/SITE LOCATION
U.S. OIL & REFINING CO.
3001 MARSHALL AVE
TACOMA, WA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 2573
DETERMINATION MADE BY
PUGET SOUND APCA
(AGENCY)
HARRY MATTERS
(AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/06/85
ESTIMATED DATE OF START-UP-- 1986
(206)-344-7334
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, HYDROCRACKER	60.40 MBTU/H	PM	0.0300 % ASH BY WT IN FUEL OIL LOW ASH FUEL	
HEATER, RESID. OIL PROCESSING	115.00 MBTU/H	SO2	0.3500 % S BY WT IN FUEL OIL LOW S FUEL OIL	
HEATER, HYDROGEN PLANT	190.00 MBTU/H	SO2	160.0000 PPM H2S IN FUEL GAS AMINE TREATING	
BOILER, GAS/OIL	98.90 MBTU/H	NOX	100.0000 PPM AT 3% O2, DRY, OIL 50.0000 PPM AT 3% O2, DRY, GAS CONTINUOUS O2 MONITORS & LOW EXCESS AIR	
SULFUR RECOVERY PLANT	116.00 T/D SULFUR	SO2	250.0000 PPM AT 0% O2, DRY CLAUS PLANT W/LO CAT TAILGAS TREATMENT	99.00

NOTES -----
EACH BATCH OF FUEL OIL MUST BE ANALYZED FOR SULFUR & ASH CONTENT. CONTINUOUS H2S MONITOR ON FUEL GAS SYSTEM. CONTINUOUS O2 MONITORS ON EACH FUEL BURNING DEVICE. CONTINUOUS SO2 & O2 EMISSION MONITORS REQUIRED ON TAILGAS SYSTEM.
ANOTHER PERSON KNOWLEDGABLE ABOUT PERMIT IS JIM NOLAN.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
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ID NUMBER WA-0009A
REVIEW STATUS:
INITIAL REVIEW POST STARTUP
SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - AUXILIARY 46500.00 BPSD

COMPANY NAME/SITE LOCATION VENTECH REFIN.

KROTZ SPRINGS, LA

ST. LANDRY PARISH

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-232
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/13/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

CATALYTIC REGEN

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

PM 14.6000 LB/H 3 STAGE CYCLONE BACT 94.00
SO2 265.2000 LB/H LOW H2S FUEL (OIL LB/DCSF) NSPS

NOX 66.6000 LB/H LOW EXCESS AIR BACT

VOC 2.2000 LB/H LOW EXCESS AIR BACT

CO 104.7000 LB/H FLOT REGEN NSPS 99.90

SULFUR RECOVERY PLANT

NSPS

FCCU FURNACE

50.00 MMBTU/H

BACT

PM 0.0200 LB/MMBTU EFFICIENT OPERATION

NSPS

SO2 0.0260 LB/MMBTU LOW H2S FUEL

BACT

NOX 0.2300 LB/MMBTU LOW EXCESS AIR - COMBUST CONTRL

BACT

VOC 0.0060 LB/MMBTU EFFICIENT OPERATION

BACT

CO 0.0200 LB/MMBTU LOW EXCESS AIR

NSPS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

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ID NUMBER LA-0029

SOURCE TYPE CODE 5.5

(CONTINUED) VENTECH REFIN.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VACUUM FURNACE	100.00 MMBTU/H			
		PM	0.0200 LB/MMBTU EFFICIENT OPERATION	BACT
		SO2	0.0260 LB/MMBTU LOW H2S FUEL	NSPS
		NOX	0.2300 LB/MMBTU COMBUSTION CONTROLS	BACT
		VOC	0.0060 LB/MMBTU EFFICIENT OPERATION	BACT
		CO	0.0200 LB/MMBTU LOW EXCESS AIR	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

ID NUMBER LA-0029

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - ENTIRE OPERATION

COMPANY NAME/SITE LOCATION CHEVRON USA LUBE OIL

RICHMOND, CA

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 27797

DETERMINATION MADE BY BAY AREA AQMD (AGENCY)

ELLEN LINDER (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/08/82
ESTIMATED DATE OF START-UP-- 1984
(415)-771-6000 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT
GAS COMPRESSOR, 9 EA

THROUGHPUT CAPACITY
SEE NOTE

POLLUTANT EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
EMITTED ... PCT EFF

VOC 0.3000 LB/D PER SEAL
SEAL/VAPOR RECOVERY

99.00

NOTES

CAPACITY 20 HP TO 1000 HP. FILE A 350-011

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/19/1984

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ID NUMBER CA-0045A

SOURCE TYPE CODE 5.6

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - ENTIRE OPERATION 21.00 MEBL/D

COMPANY NAME/SITE LOCATION GARY WESTERN REFIN.
GARY COMMUNITY RUAL STATION FRUITA, CO 81521 HESA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. DATE OF PERMIT ISSUANCE-- 06/24/81
DETERMINATION MADE BY EPA REGION VIII ESTIMATED DATE OF START-UP--
(AGENCY) (303)-837-3763
JOHN DALE (PHONE)
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... BASIS
VAP. REC. GAS CONT.	18.00 MNSCFD	NOX	1.2600 LB/H LOW NOX BURNERS	BACT
BOILER #4	47.00 MBL/H STEAM	NOX	8.4100 LB/H LOW NOX BURNERS	BACT
CRUDE UNIT	21.00 MBPSD	NOX	5.3100 LB/H LOW NOX BURNERS	BACT
DISTILLATE NOS	7.35 MBPSD	NOX	3.4200 LB/H LOW NOX BURNERS	BACT
GILSONITE MELT	565.00 T/D	NOX	3.6000 LB/H LOW NOX BURNERS	BACT
HYDROCRACKER	8.40 MBPSD	NOX	6.0200 LB/H LOW NOX BURNERS	BACT
MARIUZEN LUMPHIS	3.15 MBPSD	NOX	1.4400 LB/H LOW NOX BURNERS	BACT
NEW H2 PLANT	650.00 MNSCFD	NOX	13.3200 LB/H LOW NOX BURNERS	BACT

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 5.6

ID NUMBER CO-0008

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

(CONTINUED) GARY WESTERN REFIN.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PLATFORMER	6.30 MBPSD	NOX	10.0900 LB/H LOW NOX BURNERS	BACT
SUL RECOV PLANT	25.00 T/D	SO2	250.0000 PPM 60.1000 LB/H TAIL GAS SCRUBBER	BACT 99.00
SUL RECOV PLANT	25.00 T/D	NOX	0.3600 LB/H LOW NOX BURNERS	BACT

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

(*) INDICATES DATUM HAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE CODE 5.6

ID NUMBER CO-0006

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - ENTIRE OPERATION 184000.00 BPSD

COMPANY NAME/SITE LOCATION HAMPTON ROADS ENERGY CO. PORTSMOUTH, VA PORTSMOUTH CITY COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. 78VA01
 DETERMINATION MADE BY EPA REGION III
 (AGENCY)
 EILEEN GLEN
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 01/25/80
 ESTIMATED DATE OF START-UP--
 (215)-597-8187
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY 32.00 MBTU/H
 HEATER, RESIDUE HDS, STACK 1.

POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF
PM	18.0000 LB/H
SO2	96.0000 LB/H
NOX	60.0000 LB/H
CO	11.0000 LB/H

HEATER, HYDROGEN PLANT, STACK 1. 770.00 MBTU/H

POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF
PM	43.0000 LB/H
SO2	232.0000 LB/H
NOX	144.0000 LB/H
CO	25.0000 LB/H

HEATER, SULFUR PLANT, STACK 1. 50.00 MBTU/H

POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF
PM	4.0000 LB/H
SO2	15.0000 LB/H
NOX	15.0000 LB/H
CO	2.0000 LB/H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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REVIEW STATUS: 04/01/1983

ID NUMBER VA-0005

SOURCE TYPE CODE 5.6

(CONTINUED) HAMPTON ROADS ENERGY CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... BASIS ... PCT EFF
SULFUR RECOVERY UNIT				
		SO2	152.0000 LB/H BEACON UNIT OR EQUIVALENT	NAAQ 99.50
HEATER, DISTILLATE HDS, STACK 2.	130.00 MMBTU/H	PM	7.0000 LB/H	BACT
		SO2	39.0000 LB/H	NAAQ
		NOX	0.3% S FUEL 24.0000 LB/H LOW NOX BURNERS	BACT
		CO	4.0000 LB/H GOOD OPERATION	BACT
HEATER, NAPHTHA HDS, STACK 2.	260.00 MMBTU/H	PM	15.0000 LB/H	BACT
		SO2	78.0000 LB/H	NAAQ
		NOX	0.3% S FUEL 49.0000 LB/H LOW NOX BURNERS	BACT
		CO	9.0000 LB/H GOOD OPERATION	BACT
HEATER, CATALYTIC REFORMER, STA*	520.00 MMBTU/H	PM	29.0000 LB/H	BACT
		SO2	152.0000 LB/H	NAAQ
		NOX	0.3% S FUEL 97.0000 LB/H LOW NOX BURNERS	BACT
		CO	17.0000 LB/H GOOD OPERATION	BACT
HEATER, ISOMERIZATION UNIT, STA*	95.00 MMBTU/H	PM	6.0000 LB/H	BACT
		SO2	28.0000 LB/H	NAAQ
		NOX	0.3% S FUEL 18.0000 LB/H LOW NOX BURNERS	BACT
		CO	3.0000 LB/H GOOD OPERATION	BACT
HEATER, ATMOS. CRUDE DISTIL, ST*	505.00 MMBTU/H	PM	29.0000 LB/H	BACT
		SO2	152.0000 LB/H	NAAQ
			0.3% S FUEL	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

TD NUMBER VA-0005

SOURCE TYPE CODE 5.6

(CONTINUED) HAMPTON ROADS ENERGY CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
GEN.UTILITY STEAM,STACK 3	60.00 MBTU/H	NOX	95.0000 LB/H LOW NOX BURNERS	BACT
		CO	17.0000 LB/H GOOD OPERATION	BACT
		PM	34.0000 LB/H	BACT
		SO2	160.0000 LB/H 0.3% S FUEL	NAAQ
		NOX	106.0000 LB/H LOW NOX BURNERS	BACT
FLARING		CO	20.0000 LB/H GOOD OPERATION	BACT
		SO2	8.0000 LB/H	BACT

NOTES

-- SO2 LIMITS DETERMINED BY NAAQS & PSD CLASS II INCREMENT CONSTRAINTS. SO2 EMISSIONS FROM START-UP OF LPG PLANT TO BE OF
FSET BY REDUCTIONS FROM OTHER SOURCES.
TANKERS BURN FUEL WITH S CONTENT <1.0%.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER VA-0005

SOURCE TYPE CODE 5.6

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

750.00 MBPSD

PETROLEUM REFINING - ENTIRE OPERATION

SOURCE TYPE/SIZE

COMPANY NAME/SITE LOCATION HESS OIL - VIRGIN ISLANDS

ST. CROIX, VI 00806

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. NONE

DETERMINATION MADE BY EPA REGION II

(AGENCY)

DATE OF PERMIT ISSUANCE-- 02/09/82

ESTIMATED DATE OF START-UP-- 1985

(212)-264-6690

(PHONE)

ED NOMAK

(AGENCY CONTACT PERSON)

PROCESSES SUBJECT

TO THIS PERMIT

THROUGHPUT

CAPACITY

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS

... PCT EFF

FCC UNIT, 2

152734.00 BBL/D

BACT

0.6000 % BY WT

USE OF LOW S FEED STOCK VOG

0.8000 LB/HLB COKE BURN

ESP

175.0000 PPM 2% O2

LEA & LOW COMBST TEMPS

500.0000 PPM VOL

CO BURNING REGENERATOR

CO BURNING REGENERATOR

0.1000 GR/DSCF H2S.GAS

0.5000 % S OIL

0.1000 LB/H2BTU

PROPER MAINTENANCE

0.2000 LB/H2BTU GAS

0.3000 LB/H2BTU OIL

LEA & WASTE HEAT REC.

0.2000 LB/H2BTU GAS

0.3000 LB/H2BTU OIL

LEA & WASTE HEAT REC.

0.2000 LB/H2BTU GAS

0.3000 LB/H2BTU OIL

LEA & WASTE HEAT REC.

PROCESS HEATERS, 3

NSPS

NSPS

BACT

BACT

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER VI-1002

SOURCE TYPE CODE 5.6

(CONTINUED) NESS OIL - VIRGIN ISLANDS

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FUGITIVE EMISSION SOURCES		VOC	GOOD ENGINEERING PRACT.	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 5.6

ID NUMBER VI-0002

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - ENTIRE OPERATION

COMPANY NAME/SITE LOCATION HILL PETROLEUM CO. KROTZ SPRINGS, LA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-286A
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOE WINKLER
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/09/80
ESTIMATED DATE OF START-UP--
(214)-767-2600
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS ... 8 BASIS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

LIQ. STORAGE TANKS (< 11.1 PSIA*

VOC FLOATING ROOF TANK W/DBL SEALS

LIQ. STORAGE TANKS (> 11.1 PSIA*

VOC PRES. VESSELS W/ VAPOR BAL.

LIQUID PETROLEUM PUMPS

VOC DOUBLE MECHANICAL SEALS

LIQUID PETROLEUM BARGES

VOC SUBMERGED FILL LINES

HEATER, REFORMER CHARGE 100.15 MMBTU/H

NOX 0.0610 LB/MMBTU GAS
0.0430 LB/MMBTU PROPANE
CO 4.0000 LB/MMBTU GAS
1.5000 LB/MMBTU PROPANE
FLUE GAS MONITORING

HEATER, HYDROTREATER CHARGE 18.29 MMBTU/H

NOX 0.0610 LB/MMBTU
LOW NOX BURNERS W/F.G. MONITOR
CO 4.0000 LB/MMBTU
FLUE GAS MONITORING

HEATER, HYDROTREATER STABILIZER 13.58 MMBTU/H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER LA-0031

SOURCE TYPE CODE 5.6

(CONTINUED) HILL PETROLEUM CO.				... & BASIS	
PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	...	PCT EFF
SAME PROCESS (CONTINUED)					
REBOILER, REFORMER STABILIZER	12.93 MMBTU/H	NOX	0.0610 LB/MMBTU GAS		
			0.0430 LB/MMBTU PROPANE		
		CO	LOW NOX BURNERS W/F.G. MONITOR		
			4.0000 LB/MMBTU GAS		
REBOILER, STABILIZER (GASOLINE)	15.49 MMBTU/H		1.5000 LB/MMBTU PROPANE		
			FLUE GAS MONITORING		
		NOX	0.0610 LB/MMBTU GAS		
			0.0430 LB/MMBTU PROPANE		
BOILER	78.15 MMBTU/H	NOX	LOW NOX BURNERS W/F.G. MONITOR		
		CO	4.0000 LB/MMBTU GAS		
			1.5000 LB/MMBTU PROPANE		
			FLUE GAS MONITORING		
BOILER	78.15 MMBTU/H	NOX	0.0610 LB/MMBTU GAS		
			LOW NOX BURNERS W/F.G. MONITORS		
		CO	4.0000 LB/MMBTU		
			FLUE GAS MONITORING		
BOILER	78.15 MMBTU/H	NOX	0.1000 LB/MMBTU GAS		
			0.1100 LB/MMBTU PROPANE		
		NOX	LOW NOX BURNERS W/F.G. MONITOR		
		CO	4.0000 LB/MMBTU GAS		
			1.5000 LB/MMBTU PROPANE		
			FLUE GAS MONITORING		

NOTES -----
THE SOURCE WILL OPERATE CONTINUOUSLY, 8640 HRS/YR. ALL CONTROL STRATEGIES ARE CONSIDERED BACT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1993
 SOURCE TYPE CODE 5.6
 ID NUMBER LA-0031

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - ENTIRE OPERATION

COMPANY NAME/SITE LOCATION MIAMI VALLEY REFIN. CO.

AURORA, IN

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PC(15)1485
DETERMINATION MADE BY INDIANA APCD
(AGENCY)

DATE OF PERMIT ISSUANCE-- 01/07/81
ESTIMATED DATE OF START-UP--
(317)-633-0664
(PHONE)

FRANK PROFIT
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

FBC COAL FIRED BOILER

50000.00 LB/H

PH

0.0600 LB/HBTU

MULTICLONE & BAGHOUSE

SO2

0.1400 LB/HBTU

99.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER IN-0009

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

SOURCE TYPE CODE 5.6

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - ENTIRE OPERATION 10.00 MBPSD

COMPANY NAME/SITE LOCATION MITCHELL ENERGY
Hwy 360, 2 MI W OF BRIDGEPORT BRIDGEPORT, TX WISE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-139
DETERMINATION MADE BY EPA REGION VI
(AGENCY) JOHN BUNYAK
(AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 07/24/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS, 2	21.34 MBTU/H	VOC	0.0030 LB/MBTU EFFICIENT OPERATION	BACT
BOILER	12.55 MBTU/H	VOC	0.0030 LB/MBTU EFFICIENT OPERATION	BACT
FLARE		VOC	0.0460 LB/MBTU EFFICIENT OPERATION	BACT
NAPHTHA STORAGE TANKS, 2	10000.00 BBL EA	VOC	0.3700 LB/MBTU DOUBLE SEALS	BACT
KEROSENE STORAGE TANKS, 2	10000.00 BBL EA	VOC	0.1600 LB/MBTU DOUBLE SEALS	BACT
DIESEL STORAGE TANKS, 2	10000.00 BBL EA	VOC	0.1200 LB/MBTU DOUBLE SEALS	BACT
RESIDUE STORAGE TANKS	10000.00 BBL EA	VOC	0.0100 LB/MBTU DOUBLE SEALS	BACT
PROCESS DRAINS		VOC	0.1600 LB/MBTU MAINTENANCE PROG.	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 5.6

ID NUMBER TX-0050

(CONTINUED) MITCHELL ENERGY

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... A BASIS ... PCT EFF
VALVES & FLANGES		VOC	11.7000 LB/HMBTU MAINTENANCE PROG.	BACT
PUMP SEALS		VOC	4.1700 LB/HMBTU MAINTENANCE PROG.	BACT
CRUDE UNLOAD		VOC	2.6200 LB/HMBTU MAINTENANCE PROG.	BACT
PRODUCT UNLOAD		VOC	1.4800 LB/HMBTU MAINTENANCE PROG.	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

PETROLEUM REFINING - ENTIRE OPERATION

COMPANY NAME/SITE LOCATION PLACID REFINING CO.

PORT ALLEN, LA

WEST BATON ROUGE PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. PSD-LA-522
DETERMINATION MADE BY

LAQD/EPA REGION VI
(AGENCY)

INEZ FRICK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/17/85
ESTIMATED DATE OF START-UP-- 1985
(504)-342-8940
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

BOILER, #B-902

THROUGHPUT
CAPACITY

175.00 MBTU/H

POLLUTANT
EMITTED

NOX

27.2000 LB/H

119.2000 T/YR

VE

COMBUSTOR DESIGN

NO VISIBLE EMISSION

BACT

... & BASIS
... PCT EFF

NOTES

PERMIT REQUIRES USE OF CONTINUOUS FLUE GAS OXYGEN METER.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER LA-0051

REVIEW STATUS:

INITIAL REVIEW POST STARTUP

SOURCE TYPE CODE 3.6

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - ENTIRE OPERATION 26.30 T/D

COMPANY NAME/SITE LOCATION SOUND REFINING, INC.
2628 MARINE VIEW DRIVE TACOMA, WA 98422

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. N/C 2445
DETERMINATION MADE BY PUGET SOUND APCD
(AGENCY) HARRY MATTERS
(AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/17/83
ESTIMATED DATE OF START-UP-- 1984
(206)-344-7334
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY 26.30 T/D
RECOVERY PLANT, SULFUR 502 75.0000 PPM
SEE NOTE #1
... & BASIS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

NOTES -----
UNIT #150 ALSO SUBJECT TO THE REQUIREMENTS OF CFR 40 PART 60, SUBPART J & PSAPCA, LETTER DATED 10/17/83. NOTE#1 - SOUR WATER S
TRIPPER, AMINE STRIPPER, CLAUS UNIT, BEVIN TAILGAS CATALYTIC UNIT, STRETFORD UNIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/13/1984
SOURCE TYPE CODE 5.6
ID NUMBER WA-0010
PAGE 6- 499

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - ENTIRE OPERATION 9010.00 BPD

COMPANY NAME/SITE LOCATION SOUND REFINING, INC.
2620 MARINE VIEW DRIVE TACOMA, WA 98422

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. N/C 2439
DETERMINATION MADE BY PUGET SOUND AFCA
(AGENCY) HARRY WATTERS
(AGENCY CONTACT PERSON) (206)-344-7334
(PHONE) DATE OF PERMIT ISSUANCE-- 10/17/83
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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CRACKER, FLUIDIZED BED CATALYTIC	9010.00 BPD	PH	0.0100 GR/DSCF ESP	99.00
		SO2	100.0000 PPM UOP CATALYST	
		NOX	60.0000 PPM	
		CO	50.0000 PPM WASTE HEAT BOILER	

NOTES -- SUBJECT TO THE REQUIREMENTS OF SUBPARTS J AND GCG OF 40CFR PART 60. ALL EMISSIONS CORRECTED TO 7% O2.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/13/1984
SOURCE TYPE CODE 5.6

ID NUMBER WA-0010A

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - ENTIRE OPERATION

COMPANY NAME/SITE LOCATION SUNLAND REFIN. CORP.

BAKERSFIELD, CA

DETERMINATION IS LAER FOR A MODIFIED SOURCE.
PERMIT NO. SJ-79-22
DETERMINATION MADE BY EPA REGION IX
(AGENCY)

DATE OF PERMIT ISSUANCE-- 09/22/80
ESTIMATED DATE OF START-UP--
(415)-454-8066
(PHONE)

DAVID SOLOMON
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

STORAGE TANKS

VOC DOUBLE SEAL INTERNAL FLOATING ROOF
OR VAPOR RECOVERY

LOADING RACKS

VOC 30.0000 MG/L OF PRODUCT
CARBON ABSORPTION SYS

TANK TRUCKS

VOC TRAILER TANKS TO BE LEAK TIGHT

VALVES/FLANGES/PUMPS/COMPRESSORS

VOC FUGITIVE I&M PROGRAM

WORK WATER SEPARATOR

VOC REQUIRED TO BE COVERED

SUMP

VOC REQUIRED TO BE COVERED

PROCESS TURNAROUNDS

VOC VENT DEPRESSURED & PURGED TO FUEL GAS SYS

VACUUM DEVICES

VOC VENTED TO FUEL GAS SYS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993 04/04/1994
SOURCE TYPE CODE 5.6

PAGE 6- 501

ID NUMBER CA-0003

(CONTINUED) SUNLAND REFIN. CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PRESSURE RELIEF VALVES		VOC	VENTED TO FLARE SYS & INCINERATED	LAER
COMBUSTION SOURCES		SO2	0.0300 GR/DSCF H2S	LAER
		NOX	50.0000 PPM 3% O2 LOW NOX BURNERS NON-CATALYTIC AMMONIA INJECTION	BACT
SULFUR RECOVERY PLANT		SO2	1.0000 LB/H	LAER

NOTES -----
A) VAPOR COLLECTION SYS MUST BE VAPOR TIGHT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993 04/04/1994
SOURCE TYPE CODE 5.6

ID NUMBER CA-0003

PAGE G- 502

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

PETROLEUM REFINING - ENTIRE OPERATION

26000.00 BPSD

COMPANY NAME/SITE LOCATION SWANN OIL CO.

CHESAPEAKE, VA

CHESAPEAKE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 76VA04

EPA REGION III

(AGENCY)

DATE OF PERMIT ISSUANCE-- 03/30/81

ESTIMATED DATE OF START-UP--

(215)-597-8187

(PHONE)

EILEEN GLEN

(AGENCY CONTACT PERSON)

PROCESSES SUBJECT

TO THIS PERMIT

THROUGHPUT

CAPACITY

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS

... PCT EFF

HEATER, CRUDE UNIT ATHOS.

94.00 MTBTU/H

PH 9.0000 LB/H

SO2 18.0000 LB/H

NOX 0.37% S IN FUEL

CO 36.0000 LB/H

2 STAGE + OFF-STOICH. COMB.

GOOD OPERATION

HEATER, CRUDE UNIT VACUUM

18.00 MTBTU/H

PH 2.0000 LB/H

SO2 3.0000 LB/H

NOX S IN FUEL 0.3%

CO 7.0000 LB/H

2 STAGE + OFF-STOICH. COMB.

GOOD OPERATION

HEATER, VISBREAKER

44.00 MTBTU/H

PH 4.0000 LB/H

SO2 6.0000 LB/H

NOX S IN FUEL 0.3%

CO 17.0000 LB/H

2 STAGE + OFF-STOICH. COMB.

GOOD OPERATION

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER VA-0002

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 5.6

(CONTINUED) SWANN OIL CO.

... & BASIS
... PCT EFF

PROCESS SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

HEATER, NAPHTHA REFORMER

50.00 MMBTU/H

PM 1.0000 LB/H
SO2 0.3000 LB/H
BURN REFINERY GAS <0.0063% S
NOX 11.0000 LB/H
2 STAGE + OFF-STOICH. COMB.
CO 1.0000 LB/H
GOOD OPERATION

BACT
BACT

BACT

BACT

BACT

BACT

HEATER, NAPHTHA HYDRODESULFURIZ*

16.00 MMBTU/H

PM 0.3000 LB/H
SO2 0.1000 LB/H
BURN REFINERY GAS <0.0063% S
NOX 4.0000 LB/H
2 STAGE + OFF-STOICH. COMB.
CO 0.3000 LB/H
GOOD OPERATION

BACT
BACT

BACT

BACT

BACT

BACT

HEATER, DISTILLATE HYDRODESULFUR*

16.00 MMBTU/H

PM 0.3000 LB/H
SO2 0.1000 LB/H
BURN REFINERY GAS <0.0063% S
NOX 4.0000 LB/H
2 STAGE + OFF-STOICH. COMB.
CO 0.3000 LB/H
GOOD OPERATION

BACT
BACT

BACT

BACT

BACT

BACT

BOILER, STEAM

29.00 MMBTU/H

PM 0.5000 LB/H
SO2 0.2000 LB/H
BURN REFINERY GAS <0.0063% S
NOX 7.0000 LB/H
2 STAGE & STOICHIOMETRIC COMB
CO 0.6000 LB/H
GOOD OPERATION

BACT
BACT

BACT

BACT

BACT

BACT

EMERGENCY FLARE SYS

SO2 0.0100 LB/H
NOX 0.2000 LB/H

BACT
BACT

BACT

POWER PLANT, TANKER

PM 14.0000 LB/H
SO2 211.0000 LB/H
NOX 64.0000 LB/H
CO 1.0000 LB/H

BACT
BACT

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BACT

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 5.6

ID NUMBER VA-0002

(CONTINUED) SHAWN OIL CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
RECOVERY UNIT, CLAUS SULFUR		SO2	14.0000 LB/H	BACT

NOTES -----
SO2 EMISSIONS FROM ATMOSPHERIC HEATER, VACUUM HEATER, & VISBREAKER HEATER SHALL NOT EXCEED THE SPECIFIED EMISSION RATES ON A 2
4-HOUR ROLLING AVERAGE BASIS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
SOURCE TYPE CODE 5.6
ID NUMBER VA-0002

APPENDIX -- DETAILED SOURCE LISTINGS

05/21/1985

SOURCE TYPE/SIZE PETROLEUM REFINING - ENTIRE OPERATION 55000.00 BBL/D

COMPANY NAME/SITE LOCATION TENNECO OIL CO. CHALMETTE, LA ST. BERNARD PARISH

DETERMINATION IS BASED FOR A MODIFIED SOURCE.
PERMIT NO. PSD-LA-199 M-1
DETERMINATION MADE BY LAGO/EPA REGION VI (AGENCY)
ATLY BRASHER (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 11/21/84
ESTIMATED DATE OF START-UP-- 1984
(504)-342-8940 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FCCU REGENERATOR	42000.00 BPSD	NO2	136.6800 LB/H PRE-MOTOR CATALYST FOR CI	
		CO	198.6800 LB/H PROMOTER CATALYST FOR CI	
SULFUR PLANT, 2 EA	180.00 LT/D	NO2	8.4000 LB/H 0.1680 LB/H ² BTU PROCESS & OPERATIONAL CONTROLS	
		CO	1.0600 LB/H 0.2110 LB/H ² BTU PROCESS & OPERATIONAL CONTROLS	
HEATERS, GAS FIRED, EXISTING	VARIOUS	NO2	0.2420 LB/H ² BTU COMBUSTION CONTROL & O2 MONITORS	
		CO	0.0211 LB/H ² BTU COMBUSTION CONTROL & O2 MONITORS	
HEATERS, OIL FIRED, EXISTING	VARIOUS	NO2	0.1680 LB/H ² BTU COMBUSTION CONTROL & O2 MONITORS	
		CO	0.0392 LB/H ² BTU COMBUSTION CONTROL & O2 MONITORS	
HEATERS, GAS FIRED, NEW	VARIOUS	NO2	0.9230 LB/H ² BTU LOW NOX BURNERS	

REVIEW STATUS: INITIAL REVIEW POST STARTUP

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE CODE 5.6

ID NUMBER LA-0022A

(CONTINUED) TENNECO OIL CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				

HEATERS, OIL FIRED, NEW

CO	0.0211	LB/TTBTU LOW NOX BURNERS
NO2	0.1013	LB/TTBTU LOW NOX BURNERS
CO	0.0382	LB/TTBTU LOW NOX BURNERS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP

REVIEW STATUS:

ID NUMBER LA-0022A

SOURCE TYPE CODE 5.6

05/21/1985

200.00 MBPSD

PETROFILM REFINING - ENTIRE OPERATION

SOURCE TYPE/SIZE

ST. CROIX, VI

COMPANY NAME/SITE LOCATION	VIRGIN ISLANDS REFINERY CORP. ESTATE BETHLEHAM
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DATE OF PERMIT ISSUANCE-- 09/04/81
ESTIMATED DATE OF START-UP-- 1985
(212)-264-8550
(PHONE)

DETERMINATION IS BACK FOR A NEW SOURCE.

PERMIT NO. NONE
DETERMINATION MADE BY
EPA REGION II
(AGENCY)

ED NOWAK
AGENCY CONTACT PERSON)

```
=====
PROCESS SUBJECT
THROUGHPUT
POLLUTANT
EMISSION LIMITS
... & BASIS
... PCT EFF
... PCT EFF
CONTROL EQUIPMENT OR PROCESS MODIFICATION
=====
```

BATTERS: FOSSTI FIRED, 3 175000.00 BBL/D

CO	14.0000	T/YR	GOOD BOILER OPERATION	BACT
VOC	3.0000	T/YR <td>GOOD BOILER OPERATION</td> <td>BACT</td>	GOOD BOILER OPERATION	BACT
NOX	0.2000	LB/HRTU GAS		BACT
	0.3000	LB/HRTU OIL		BACT
PM	0.3520	LB/HRTU		BACT
SO2	20.0000	PPM H2S GAS		BACT
	0.3300	% S BY WT, OIL		BACT

HYDROGEN PLANT

CO	105.0000	T/YR	GOOD	BOILER OPER./NO FUEL OIL	BACT
VOC	19.0000	T/YR	GOOD	BOILER OPER./NO FUEL OIL	BACT
NOX	1068.0000	T/YR	GOOD	BOILER OPER./NO FUEL OIL	BACT
PM	0.3520	LB/MTSTU	STOICHIOM.	COMBST./NO FUEL OIL	BACT
S02	3.0000	T/YR	NO GASC.	1.68/DSCF H2S	BACT

PROCESS HEATERS

CO	369.0000 T/YR	GOOD BOILER OPERATION	BACT
VOC	72.0000 T/YR	GOOD BOILER OPER.	BACT

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      INITIAL REVIEW POST STARTUP
      REVIEW STATUS: 04/01/1983
      SOURCE TYPE CODE 5.6
      (*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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(CONTINUED) VIRGIN ISLANDS REFINERY CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
FCC UNIT	175000.00 BBL/D	NOX	0.3000 LB/MMBTU OIL	BACT
			0.2000 LB/MMBTU ALT. FUELS	BACT
		PM	0.3520 LB/MMBTU	BACT
		S02	3683.0000 T/YR	
			OIL<.33% WT/ALT<.1GR/DSCF H2S	
		CO	565.0000 T/YR	NETS
		VOC	3247.0000 T/YR	BACT
			GOOD BOILER OPER.	
		NOX	0.3000 LB/MMBTU OIL	BACT
			0.2000 LB/MMBTU ALT. FUELS	LAER
		PM	1.0000 LB/MLB COKE BURN	
			0.1000 LB/MMBTU SUPP. OIL	NSPS
		S02	79.0000 T/YR	
			OIL<.33% WT/ALT<.1GR/DSCF H2S	
SULFUR RECOVERY PLANT		CO	29.0000 T/YR	BACT
			GOOD HEATER OPERATION	
		VOC	35.0000 T/YR	BACT
			GOOD HEATER OPERATION	
		NOX	0.3000 LB/MMBTU OIL	BACT
			0.2000 LB/MMBTU ALT.	BACT
		PM	0.3520 LB/MMBTU	NSPS
		S02	365.0000 T/YR	
			CLAUS SYS. W/ 3 UNITS	
			OIL<.33% WT/ALT<.1GR/DSCF H2S	
PETROLEUM LIQUID STORAGE TANKS		VOC	937.0000 T/YR	NSPS
			FLOATING ROOF TANKS	
PUMPS, SEALS, VALVES, FLANGES		VOC	177.0000 T/YR	BACT
MARINE LOAD & UNLOAD FACILITY		VOC	64.0000 T/YR	SIP
			SEALS	
INCINERATOR, MULTI-CHAMBER		CO	NONE	BACT
			GOOD OPERATION	
		NOX	NONE	BACT
			GOOD OPERATION	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

(CONTINUED) VIRGIN ISLANDS REFINERY CORP.

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMITTED EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

SAHE PROCESS (CONTINUED)

API WASTE OIL SEPARATOR

PM 0.3000 LB/H

VOC 436.0000 T/YR
FIXED COVER/FOAM SPHERES

NSPS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 5.6

ID NUMBER VI-0001

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE BULK TERMINALS

COMPANY NAME/SITE LOCATION AMOCO OIL CO., GRANVILLE

MILWAUKEE, WI

DETERMINATION IS LAER FOR A NEW SOURCE.

DATE OF PERMIT ISSUANCE-- 06/23/80
ESTIMATED DATE OF START-UP-- 1981

PERMIT NO. MAN-03-80-41-064 WISCONSIN DNR
DETERMINATION MADE BY (AGENCY)

ELIZABETH SPAETH
(AGENCY CONTACT PERSON)

(414)-257-9929
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... A BASIS
... PCT EFF

TERMINAL

214494.00 MGAL GASOLINE*

VOC

30.0000 MG/L

FLOAT ROOF & VAPOR RECOVERY SYS.

LAER
97.00

TERMINAL

71356.00 MGAL #2 OIL

VOC
VOC

60.0000 MG/L
30.0000 MG/L

LAER

NOTES --
OFFSET OBTAINED BY CLOSING JONES ISLAND TERMINAL, EXTRA EMISSIONS BANKED 41.55 TYP

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 06/01/1983

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ID NUMBER WI-0005

SOURCE TYPE CODE 5.7

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE

COMPANY NAME/SITE LOCATION

COVINGTON, KY 41015

KENTON COUNTY

DETERMINATION IS BACT
PERMIT NO. C-81-37
DETERMINATION MADE BY

KENTUCKY DAPC
(AGENCY)

BILL DILLS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/01/81
ESTIMATED DATE OF START-UP-- 1981
(502)-564-3382
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

BOTTOM FILL LOADING RACK

POLLUTANT
EMITTED

... A BASIS
... PCT EFF

VOC 80.0000 MG/L GROUND LOADING
CARBON ABSORPTION

NOTES

THIS PERMIT GRANTED UNDER A VOC BUBBLE REQUEST TO ALLEVIATE RETROFITTING EXISTING TANKS W/FLOATING ROOFS. PERMIT N/A TO BACT/L
AER. THIS BUBBLE SET THE ALLOWABLE AT 30000.0 MG/L

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER KY-0019

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 02/13/1984

SOURCE TYPE CODE 5.7

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

476000.00 BBL

BULK TERMINALS

SOURCE TYPE/SIZE

COMPANY NAME/SITE LOCATION BAYTANK INC., HOUSTON

SEABROOK, TX

HARRIS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 8805

TEXAS ACB
(AGENCY)

STUART KEIL
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/12/82
ESTIMATED DATE OF START-UP-- 1983
(512)-451-5711
(PHONE)

PROCESSES SUBJECT

TO THIS PERMIT

STORAGE TANKS, 49

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

CAPACITY VA*

VOC

FLARING EMIS., SEE NOTE 2
MAT. W/>0.5 PSIA VAP. PRESS.

BACT
99.00

WASTE WATER SEPERATOR, SEE NOTE*

VOC

COVERS W/VENTS TO FLARES

BACT
99.00

NOTES

NOTE 1 - WASTE WATER SEPARATOR INCLUDES 2 DECANTERS & DOUBLE SKIMMER SYS. NOTE 2 - ALSO MATERIALS WITH < 0.5 PSIA VAP. PRESS.
BUT WITH ODOR OR TOXICITY EFFECTS ARE REQUIRED TO MEET THESE EQUIPMENT STANDARDS / TO USE ADSORBERS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER TX-0106

SOURCE TYPE CODE 5.7

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

1.00 MFGAL/D

RICHMOND, CA

DATE OF PERMIT ISSUANCE-- 12/23/80
ESTIMATED DATE OF START-UP-- 1981
(415)-771-6000
(PHONE)

KELLY WEE
(AGENCY CONTACT PERSON)

BAY AREA AQMD
(AGENCY)

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

POLLUTANT
EMITTED

THROUGHPUT
CAPACITY

1.00 MFGAL/D

VOC

91.0000 LB/D

90.0000 LB/MFGAL

CARBON ADSORPTION

BACT

98.60

NOTES -----
SOURCE TEST #63862. FILE A 350-004

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/19/1984

SOURCE TYPE CODE 5.6

ID NUMBER CA-0051

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE STORAGE OF PETROLEUM LIQUIDS 3300.00 BBL

COMPANY NAME/SITE LOCATION KERN OIL & REFINING CO.

, CA

KERN COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 2018063
DETERMINATION MADE BY

KERN COUNTY APCD
(AGENCY)

TOH PAXSON
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/18/84
ESTIMATED DATE OF START-UP--
(805)-861-3682
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

INTERNAL FLOAT ROOF TANK

3300.00 BBL

VOC

0.2000 LB/D

TRIPLE SEAL INT. FLOAT ROOF

NSPS

98.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 09/01/1984

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ID NUMBER CA-0081

SOURCE TYPE CODE 5.9

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE STORAGE OF PETROLEUM LIQUIDS

COMPANY NAME/SITE LOCATION HCKESSON CHEMICAL CO.

TULSA, OK

DETERMINATION IS BASED FOR A MODIFIED SOURCE.

PERMIT NO. SEE NOTE

DETERMINATION MADE BY

TULSA CITY-COUNTY HEALTH DEPT

(AGENCY) BILL GIBBONS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/01/81
ESTIMATED DATE OF START-UP--

(916)-743-1000
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

DRUM FILLING FACILITY

VOC

VAPOR RECOVERY LOOP

90.00

NOTES

DRUM FILLING FACILITY USED FOR WHOLESALING VARIOUS CHEMICALS. CONSERVANTS INSTALLED ON STORAGE TANKS, TOTAL STORAGE CAPACITY 6
0000 GALLONS. NOTE - PERMIT # T79-78 THRU T79-83 & T78-068

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER OK-0011

REVIEW STATUS: 04/01/1983

INITIAL REVIEW POST STARTUP

SOURCE TYPE CODE 5-9

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

120.00 MFGAL/YR

STORAGE OF PETROLEUM LIQUIDS

SOURCE TYPE/SIZE

CINCINNATI, OH

QUEEN CITY TERMINALS

COMPANY NAME/SITE LOCATION

DATE OF PERMIT ISSUANCE-- 05/19/82
ESTIMATED DATE OF START-UP--
(513)-251-8777
(PHONE)

DETERMINATION IS
PERMIT NO. 14-403
DETERMINATION MADE BY

HARRY SCHWIETTERING
(AGENCY CONTACT PERSON)

SOUTHWEST OHIO APCA
(AGENCY)

PROCESSES SUBJECT TO THIS PERMIT

EMISSION LIMITS

POLLUTANT
EMITTED

THROUGHPUT
CAPACITY

STORAGE TANK, 2

50.00 MFGAL

NOTE
75.00

INT. FLOAT ROOF, LIQ. MOUNTED SEAL

BEN#

PUMPS & VALVES

BEN#

NOTE

DESIGN CRITERIA

BARGE LOADING

120.00 MFGAL/YR

BEN#

BACT
95.00

FLARE

NOTES -----
NOTE -- NESHAP, AND BACT

REVIEW STATUS:
INITIAL REVIEW POST STARTUP

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER OH-0066

SOURCE TYPE CODE 5.9

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE TRANSPORT & MARKETING - PETROLEUM PRODUCTS

COMPANY NAME/SITE LOCATION COLUMBIA GAS TRANSMISSION CORP.

SUGAR GROVE, OH

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 0123000137
DETERMINATION MADE BY

OHIO EPA CO
(AGENCY)

GEORGE DEMIS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/13/81
ESTIMATED DATE OF START-UP--
(614)-864-3195
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

NAT. GAS FIRED I. C. ENGINES

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

NOX	5.0000 G/HP-H	ENGINE DESIGN
CO	2.0000 G/HP-H	ENGINE DESIGN
VOC	0.3000 G/HP-H	ENGINE DESIGN

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER OH-0024

REVIEW STATUS: 04/01/1993

INITIAL REVIEW POST STARTUP

SOURCE TYPE CODE 5.11

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE

TRANSPORT & MARKETING - PETROLEUM PRODUCTS

COMPANY NAME/SITE LOCATION CRYSEN REFINING, WESTERN DIV.

WOODS CROSS, UT

DAVIS COUNTY

DETERMINATION IS
PERMIT NO.
DETERMINATION MADE BY

UTAH BAQ
(AGENCY)

DONALD ROBINSON
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/12/82
ESTIMATED DATE OF START-UP-- 1983
(801)-533-6108
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

NAPHTHA TANK, 2

THROUGHPUT
CAPACITY

365000.00 BBL/YR EA

POLLUTANT
EMITTED

VOC

INTERNAL FLOATING ROOF

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 02/13/1984
SOURCE TYPE CODE 5.11

10 NUMBER UT-0027

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE TRANSPORT & MARKETING - PETROLEUM PRODUCTS 22600.00 GAL/D

COMPANY NAME/SITE LOCATION DEPT. OF THE NAVY CORPUS CHRISTI, TX NUECES COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. X3918
 DETERMINATION MADE BY TEXAS ACS (AGENCY)
 STUART KEIL (AGENCY CONTACT PERSON)
 (512)-451-5711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMITTED EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF
 LOADING RACK/STORAGE TANKS, 2 6000.00 EBL VOC NIL EMISSIONS DISPLACED VAPORS ROUTED TO FLARE 99.90

NOTES -----
 15% OF DISPLACED VAPORS ARE ASSUMED TO BE NOT COLLECTED DUE TO FUGITIVE LOSSES.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 5.11

ID NUMBER TX-0099

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE TRANSPORT & MARKETING - PETROLEUM PRODUCTS 2000.00 MMCFD

COMPANY NAME/SITE LOCATION NORTHERN ALASKAN PIPELINE , AK

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-X81-03-09
DETERMINATION MADE BY EPA REGION X
(AGENCY)

PAUL BOYS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/23/81
ESTIMATED DATE OF START-UP--
(206)-442-1193
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
MAINLINE COMPRESSOR TURBINE		NOX	150.0000 PPM 60.0000 KG/H DRY CONTROLS	BACT
REFRIG. COMPRESSOR TURBINE		NOX	150.0000 PPM 38.0000 KG/H DRY CONTROL	BACT
ELECT. GEN. TURBINE		NOX	150.0000 PPM 15.0000 KG/H DRY CONTROL	BACT
GLYCOL HEATER MISC.		NOX	43.0000 NS/J 4.0000 KG/H LOW NOX BURNERS	BACT

NOTES -----

ABOVE LIMITS ARE FOR 1 COMPRESSOR STATION, 7 WILL BE BUILT ALONG PIPELINE. ALSO TOTAL LIMIT FOR EACH STATION OF 175 KG/HR OR 1

517 METRIC TONS PER YEAR

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
SOURCE TYPE CODE 5.11

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER AK-0002

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

933.00 MBSL/D

TRANSPORT & MARKETING - PETROLEUM PRODUCTS

COMPANY NAME/SITE LOCATION NORTHERN TIER

, AK

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. (REGION FILE NO.) PSD-X81-14
 DETERMINATION MADE BY EPA REGION X
 (AGENCY)
 PAUL BOYS
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 09/14/81
 ESTIMATED DATE OF START-UP--
 (205)-442-1193
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF

NOTES -----
 FOR PERMIT CONDITIONS, SEE ATTACHMENT, ALL ARE BASED ON TECHNOLOGY AND ECONOMICS.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1993

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE CODE 5.11

ID NUMBER AK-0001

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS 55000.00 HP

COMPANY NAME/SITE LOCATION AMERADA HESS
P.O. BOX 2040
TULSA, TX 74012
GAINES COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-328
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/14/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY EMISSION LIMITS
ENGINE, NAT. GAS, COMPRESSOR, 3# 1600.00 HP
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

NOX	10.6000 G/HP-H	ADJUSTED AIR FUEL RATIO	BACT
VOC	53.0000 T/YR	NORMAL EQUIP. OPERATION	BACT
CO	1.4000 G/HP-H	NORMAL EQUIP. OPERATION	BACT
SO2	0.2500 T/YR	NORMAL EQUIP. OPERATION	BACT
PH	TRACE	NORMAL EQUIP. OPERATION	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER TX-0017

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS 250.00 MMCFD

COMPANY NAME/SITE LOCATION AMOCO PRODUCTION UINTA, WY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. CT-272
 DETERMINATION MADE BY WYCHING AGD (AGENCY)
 BERNIE DAILEY (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 12/20/79
 ESTIMATED DATE OF START-UP-- 1983
 (307)-777-7391 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF
BOILER, GAS, 2 EA	65.50 MMBTU/H	NOX	0.2000 LB/MMBTU DESIGN BACT
HEATER, GAS	33.30 MMBTU/H	NOX	0.2000 LB/MMBTU DESIGN BACT
HEATER, GAS	7.10 MMBTU/H	NOX	0.2000 LB/MMBTU DESIGN BACT
INCINERATOR, SULFUR PLANT		SO2	311.5000 LB/H CLAUD & CBA BACT 98.60

NOTES -----
 AN EXTENSIVE BACT ANALYSIS BASED ON ECONOMIC, ENERGY, & ENVIRONMENTAL FACTORS COMPARING CLAUS-CBA TO CLAUS-SCOT WAS PERFORMED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS:
 ID NUMBER NY-0008
 SOURCE TYPE CODE 5.12
 PAGE G- 524

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS SEE NOTE

COMPANY NAME/SITE LOCATION AHOCO PRODUCTION CO. ND BILLINGS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 01/12/83
 PERMIT NO. ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY NORTH DAKOTA SHD (701)-224-2348
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT THROUGHPUT EMISSION LIMITS ... & BASIS
 TO THIS PERMIT CAPACITY POLLUTANT EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
 INCINERATOR STACK SEE NOTE SO2 SEE NOTE CLAUD UNIT & CBA BACT
 98.60

NOTES -----
 THE PLANT IS TO BE CONSTRUCTED IN THREE STEPS. THE PLANT WILL PROGRESS FROM A 25 MHCF/D PLANT WITH AN EMISSION LIMIT OF 62.25
 LB/H SO2, TO A 50 MHCF/D PLANT WITH AN EMISSION LIMIT OF 124.5 LB/H SO2 & THEN TO A 100 MHCF/D PLANT WITH AN
 EMISSION LIMIT OF 249 LB/H SO2.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER ND-0003 SOURCE TYPE CODE 5.12
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION ATM COMPANY

ISABELLA TWP, MI

ISABELLA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 631-82B

DETERMINATION MADE BY

MICHIGAN DNR

(AGENCY)

LAURA OTWELL

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/28/83

ESTIMATED DATE OF START-UP-- 1983

(517)-322-1333

(PHONE)

PROCESSES SUBJECT

TO THIS PERMIT

GAS SWEETENING AMINE FACILITY

THROUGHPUT

CAPACITY

2.30 MMCF/D

POLLUTANT

EMITTED

S02

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... A BASIS

... PCT EFF

24,000 LB/H

2 STAGE CAUST. SCRUBB., INCINERATOR

99.99

NOTES

RULE 403(4) OF THE MICHIGAN APC RULES REQUIRE BACT ON ALL NEW SWEETENING FACILITIES. DETERMINATION IS BASED ON DETAILED ECONOMIC ANALYSIS AND EXPECTED EFFICIENCIES OF VARIOUS CONTROL SYSTEMS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/19/1984 03/13/1984

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ID NUMBER MI-0032

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE

NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION

BASS ENTERPRISES PRODUCTION CO.
201 MAIN ST.

FORT WORTH, TX 76102

DETERMINATION IS BACT
PERMIT NO. C-9458
DETERMINATION MADE BY

TEXAS ACB
(AGENCY)

I.L. BILSKY
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/24/84
ESTIMATED DATE OF START-UP--
(512)-451-5711
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

SWEETENING & DEHYDRATION, NAT. # 18.00 HHCFD

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS

18.00 HHCFD

SO2

248.3000 T/YR

WASTE GAS FIRING

BACT

NOX

13.3600 T/YR

WASTE GAS FIRING

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

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ID NUMBER TX-0154

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE

NATURAL GAS/GASOLINE PROCESSING PLANTS

60.00 HHCFD

COMPANY NAME/SITE LOCATION CHAMPLAIN PETROLEUM

NY

UNITA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. CT-515

DETERMINATION MADE BY

WYOMING ACID
(AGENCY)

CHUCK COLLINS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/09/83
ESTIMATED DATE OF START-UP-- 1984
(307)-777-7391
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

COMPRESSOR, 2 EA

THROUGHPUT
CAPACITY

2250.00 HP

EMISSION LIMITS

POLLUTANT
EMITTED

CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

HEATER, GAS	3.75 MBTU/H	NOX	4.0000 G/HP-H DESIGN	BACT
		CO	2.0000 G/HP-H DESIGN	BACT
		VOC	0.5000 G/HP-H DESIGN	BACT
		SO2	0.8900 LB/H DESIGN	BACT
		NOX	0.2300 LB/HHBTU DESIGN	BACT
		CO	0.0200 LB/HHBTU DESIGN	BACT
		SO2	0.0600 LB/HHBTU DESIGN	BACT
TURBINE, 2 EA	606.00 HP	NOX	150.0000 PPM DESIGN	B/N
		CO	2.0000 G/HP-H DESIGN	BACT
		VOC	0.0100 G/HP-H DESIGN	BACT
		SO2	0.5800 LB/H DESIGN	BACT

NOTES -----

SO2 EMISSIONS LIMITS BASED ON FUEL S CONTENT OF LESS THAN 20 GR/100 SCF.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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REVIEW STATUS: INITIAL REVIEW POST STARTUP

ID NUMBER NY-0005

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

260.00 HHCFD

NATURAL GAS/GASOLINE PROCESSING PLANTS

SOURCE TYPE/SIZE

COMPANY NAME/SITE LOCATION
CHAMPLIN PETROLEUM CO.
P.O. BOX 310

CARTHAGE, TX

POHOLA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. TX-206

DETERMINATION MADE BY

EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/11/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

I. C. ENGINE

600.00 HP

NOX

19.2000 LB/H
24.0000 LB/THP-H

CNTRL AIR/FUEL RATIO, IGN TIM.

BACT

I. C. ENGINE, 2

1050.00 HP EA

NOX

25.2000 LB/H EA
24.0000 LB/THP-H

CNTRL AIR/FUEL RATIO, IGN TIM.

BACT

I. C. ENGINE, 2

730.00 HP EA

NOX

16.4000 LB/H
24.0000 LB/THP-H

CNTRL AIR/FUEL RATIO, IGN TIM.

BACT

NOTES

MODIFICATION -- INCREASED CAPACITY FROM 220 HHCFD TO 260 HHCFD.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER TX-0069

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

420.00 MHCFO

NATURAL GAS/GASOLINE PROCESSING PLANTS

SOURCE TYPE/SIZE

UINTA, WY

COMPANY NAME/SITE LOCATION CHEVRON U.S.A.

DETERMINATION IS PERMIT NO. CT-297

DATE OF PERMIT ISSUANCE-- 05/28/80

DETERMINATION MADE BY WYOMING AGO (AGENCY)

ESTIMATED DATE OF START-UP-- 1983

LEE GRIBOVICZ (AGENCY CONTACT PERSON)

(307)-332-3144 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... BASIS

SULFUR PLANT & TGU, 3 EA	1000.00 T/D	CO COS H2S	220.0000 LB/H 460.0000 LB/H 8.2000 LB/H	3 STAGE CLAUS - BEAVON	BACT BACT BACT 99.70
REHEATER, STACK GAS, 3 EA	23.00 MMBTU/H	NOX	0.2000 LB/MMBTU DESIGN		BACT
HEATER, GLYCOL STILL, 3 EA	10.00 MMBTU/H	NOX	0.2000 LB/MMBTU DESIGN		BACT
HEATER, PROCESS, 3 EA	62.50 MMBTU/H	NOX	0.2000 LB/MMBTU DESIGN		BACT
FURNACE, GAS, 3 EA	10.00 MMBTU/H	NOX	0.2000 LB/MMBTU DESIGN		BACT
BOILER, GAS, 6 EA	93.00 MMBTU/H	NOX	0.2000 LB/MMBTU DESIGN		BACT

NOTES -----
CONSTRUCTED IN 3 PHASES. EACH PHASE CONSISTS OF PROCESSING TRAIN WITH A 1000 T/D SULFUR RECOVERY CAPACITY. TGU REPRESENTS A THERMAL GASIFICATION UNIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

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ID NUMBER WY-0009

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS

60.00 MMCFD

COMPANY NAME/SITE LOCATION CIG

, NY

SHEETWATER COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. CT-58
DETERMINATION MADE BY WYOMING AGD
(AGENCY)

LEE GRIBOVICZ
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/25/76
ESTIMATED DATE OF START-UP-- 1977
(307)-332-3144
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

THERMAL GASIFICATION UNIT STACK

BOILER, GAS, 2

48.40 MMBTU/H

SO2

0.1350 % V AT 0% O2, DRY BASIS
3 STAGE CLAUSS & AMMONIA ABSORPTION

BACT
98.90

NOX

0.2000 LB/MMBTU
DESIGN

SIP

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS:
INITIAL REVIEW POST STARTUP

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ID NUMBER NY-0011

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS 3.09 MMCFD

COMPANY NAME/SITE LOCATION CRYSTAL EXPLORATION CO. MARATHON TWP, MI LAPEER COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. 238-80E
 DETERMINATION MADE BY MICHIGAN DNR
 (AGENCY)
 GREGORY EDWARDS
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 11/30/82
 ESTIMATED DATE OF START-UP-- 1983
 (517)-322-1333
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SWEETENING FACILITIES	3.09 MMCF/D	H2S	96.0000 % REMOVAL FROM ACID GAS STRM	96.00
		SO2	TWO STAGE CAUSTIC SCRUBBER	99.50
			SO2 1350.0000 LB/D	
			SOUR GAS INCINERATOR	

NOTES -----
 MICHIGAN REGULATIONS REQUIRE BACT FOR ALL NEW NATURAL GAS SWEETENING FACILITIES.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983 04/19/1984
 SOURCE TYPE CODE 5.12
 ID NUMBER MI-0029
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

NATURAL GAS/GASOLINE PROCESSING PLANTS

1642.50 MMSCF/YR

HOSSTON, LA

CRYSTAL OIL CO.

CADDO PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. PSD-LA-510
DETERMINATION MADE BY

LAQD/EPA REGION VI
(AGENCY)

NAN KILLEEN
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/19/83
ESTIMATED DATE OF START-UP--
(504)-342-8940
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

FLARE, 83-01

THROUGHPUT
CAPACITY

300.00 BTU/SCF

POLLUTANT
EMITTED

SO2

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

144.4800 LB/H

... & BASIS
... PCT EFF

NOTES

NO APPLICABLE NSPS FOR GAS PROCESSING PLANTS. PERMIT INCLUDES PROVISION FOR RE-EVALUATION OF BACT, DEPENDING UPON H2S CONTENT OF SOUR GAS STEAM.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS:

ID NUMBER LA-0046

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

60.00 MMCFD

NATURAL GAS/GASOLINE PROCESSING PLANTS

SOURCE TYPE/SIZE

COMPANY NAME/SITE LOCATION DELHI GAS PIPELINE CORP.

ATHENS, TX

HENDERSON COUNTY

DETERMINATION IS BACK FOR A NEW SOURCE.

PERMIT NO. 8628

DETERMINATION MADE BY

TEXAS ACB
(AGENCY)

STUART KEIL
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/29/82
ESTIMATED DATE OF START-UP-- 1983
(512)--451-5711
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... A BASIS
... PCT EFF

GAS PROCESSING PLANT - SULFUR 37.70 LT/D

SO2 92.9000 T/YR
400.0000 PPM

3 STAGE CLAUS PLANT/SCOT TAIL GAS

99.70

GAS PROCESSING PLANT - GAS

60 00 MMCF/D

H2S 1.3000 T/YR
10.0000 PPM

NOTES -----
CONCENTRATIONS OF SO2 AND H2S ARE CALCULATED ON A DRY, OXYGEN FREE BASIS AT INCINERATOR EXIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1985

ID NUMBER TX-0096

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

11.50 MMCFD

NATURAL GAS/GASOLINE PROCESSING PLANTS

SOURCE TYPE/SIZE

COMPANY NAME/SITE LOCATION ENDERCO

GARLAND, AR

MILLER COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. PSD-704-A
DETERMINATION MADE BY ARKANSAS DEP
(AGENCY)

CECIL HARRELL
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/23/83
ESTIMATED DATE OF START-UP-- 1983
(501)-562-7444
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

AMINE SHEETENING CLAUS

11.50 MMCFD

S02

155.0000 LB/H
CLAUS PLANT

BACT
90.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

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ID NUMBER AR-0011

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

15.00 MMCFD

NATURAL GAS/GASOLINE PROCESSING PLANTS

SOURCE TYPE/SIZE

COMPANY NAME/SITE LOCATION ETexas PRODUCERS GAS CO.

, TX

SMITH COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. X-3832
DETERMINATION MADE BY TEXAS ACB
(AGENCY)

JENNIFER SEINFELD
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/05/82
ESTIMATED DATE OF START-UP-- 1983
(512)-451-5711
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY EMISSION LIMITS POLLUTANT EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

HOT OIL HEATER

2.26 MMBTU/H

NOX

2.1000 T/YR

SWEET NAT GAS FIRED

AP42

REGENERATION HEATER

1.31 MMBTU/H

NOX

1.4000 T/YR

SWEET NAT GAS FIRED

AP42

COMPRESSOR

700.00 HP

VOC

3.0000 T/YR

4.4000 G/HP-H

NOX

67.0000 T/YR

10.0000 G/HP-H

CO

9.0000 T/YR

1.4000 G/HP-H

FLARE, EMERGENCY

24.0000 T/YR

VOC

AP42

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 05/04/1984

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ID NUMBER TX-0123

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

600.00 MMSCFD

NATURAL GAS/GASOLINE PROCESSING PLANTS

SOURCE TYPE/SIZE

COMPANY NAME/SITE LOCATION EXXON CO., USA

, NY

LINCOLN COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. CT-544
DETERMINATION MADE BY WYOMING AGO
(AGENCY)

DATE OF PERMIT ISSUANCE-- 05/22/84
ESTIMATED DATE OF START-UP-- 1986
(307)-332-3144
(PHONE)

LEE GRIBOVICZ
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

INCINERATOR, SULFUR PLANT

BACT
99.70

3 STAGE CLAUS PLUS SCOT

SO2 233.4000 LB/H SEE NOTE #1

SEE NOTE #2

SELEXOL VENT #1

NMHC 464.8000 LB/H
H2S 29.5000 LB/H
COS 602.5000 LB/H

BACT
BACT
BACT

SELEXOL VENT #2

NMHC 67.8000 LB/H
H2S 4.3000 LB/H
COS 87.9000 LB/H

BACT
BACT
BACT

BOILER, 3 EA

26.00 MMBTU/H

NOX 0.1700 LB/MMBTU
DESIGN

BACT

NOTES

NOTE #1 - BASED ON MAX ALLOWABLE PROCESS RATE OF 275.0 MMSCFD PER PROCESS TRAIN. NOTE #2 - TOTAL EMISSIONS FROM VENTS BASED ON TWO 275.0 MMSCFD PROCESS TRAINS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

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ID NUMBER NY-0014

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS 24.00 MTCFD NAT GAS

COMPANY NAME/SITE LOCATION EXXON CO., U.S.A.
6 MI. N. GILMER W. HWY 271 GILMER, TX UPSHAM COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-362
DETERMINATION MADE BY EPA REGION VI
(AGENCY) JOHN BUNYAK
(AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 02/09/82
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DIETHENOLAMINE (DEA) REGEN.	4.50 M ³ BTU/H	SO2	0.0004 LB/M ³ BTU NAT. GAS AS FUEL		
GLYCOL RECONCENTRATOR	0.72 M ³ BTU/H	SO2	0.0003 LB/M ³ BTU NAT. GAS AS FUEL		
FLARE		SO2	129.3500 LB/H SHOKELESS, NO OTHER TECH. FEAS.		

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS 60.00 MHCFD

COMPANY NAME/SITE LOCATION LIQUID ENERGY CORP. NEAR ARTESIA, NH

DETERMINATION IS BASED FOR A NEW SOURCE.

PERMIT NO. NH-389

DETERMINATION MADE BY

AIR QUALITY BUREAU - NHEID
(AGENCY)

SHANKAR ANANTHAKRISHNA
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/10/81
ESTIMATED DATE OF START-UP-- 1991
(505)-984-0020
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
ENGINE, I.C. COMPRESSOR	2000.00 HP	NOX	3.4000 G/HP-H LOW NOX ENGINE
ENGINE, I.C. COMPRESSOR	2000.00 HP	NOX	3.4000 G/HP-H LOW NOX ENGINE
ENGINE, I.C. COMPRESSOR	2000.00 HP	NOX	3.4000 G/HP-H LOW NOX ENGINE

NOTES -----
STACK TESTS, EPA REF. METHOD 20, WERE PERFORMED ON ALL THREE ENGINES & THE ACTUAL EMISSIONS WERE 2.01 G/HP-H, 2.6 G/HP-H, & 3.28 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER NH-0008

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 09/01/1993

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

200.00 MHCFD

NATURAL GAS/GASOLINE PROCESSING PLANTS

SOURCE TYPE/SIZE

COMPANY NAME/SITE LOCATION LIQUID ENERGY CORP.

BRIDGEPORT, TX

WISE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE:

PERMIT NO. 9534
DETERMINATION MADE BY

TEXAS A&B
(AGENCY)

KAREN HORNE
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/11/85
ESTIMATED DATE OF START-UP-- 1985
(512)-451-5711
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

COMPRESSOR ENGINE, 3 EA, MEP-8 200.00 MHCFD

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... A BASIS
... PCT EFF

NOX

4.0000 G/HP-H

BACT

CO

2.0000 G/HP-H

VOC

0.3200 G/HP-H

TURBOCHARGED

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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REVIEW STATUS: INITIAL REVIEW POST STARTUP

ID NUMBER TX-0126A

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION MAPCO PRODUCTION CO.

NEAR ROSWELL, NM

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. PSD-NM-576
DETERMINATION MADE BY

AIR QUALITY BUREAU - NMEID
(AGENCY)

SHANKAR ANANTHAKRISHNA
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/14/83
ESTIMATED DATE OF START-UP-- 1983
(505)-984-0020
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

ACID GAS FLARE

7.50 MMSCFD

SO2 703.0000 LB/H

DIETHANOL AMINE UNIT

ENGINE, I.C. COMPRESSOR

446.00 HP

NOX

9.0000 G/HP-H

AIR/FUEL RATIO

ENGINE, I.C. COMPRESSOR

670.00 HP

NOX

9.0000 G/HP-H

AIR/FUEL RATIO

ENGINE, I.C. COMPRESSOR

507.00 HP

NOX

9.0000 G/HP-H

AIR/FUEL RATIO

ENGINE, I.C. COMPRESSOR

270.00 HP

NOX

9.0000 G/HP-H

AIR/FUEL RATIO

NOTES

STACK TESTS, EPA REF. METHOD 7, WERE PERFORMED ON ALL FOUR ENGINES & EMISSIONS WERE 7.1 G/HP-H.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER NM-0007

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

7.10 MHCFO

NATURAL GAS/GASOLINE PROCESSING PLANTS

SOURCE TYPE/SIZE

COMPANY NAME/SITE LOCATION MARATHON OIL CO.

, NY

PARK COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. CT-479

DETERMINATION MADE BY WYOMING AGO (AGENCY)

CHUCK COLLINS (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/20/83
ESTIMATED DATE OF START-UP-- 1984
(307)-777-7391 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BATS ... PCT EFF

STILL, GLYCOL

0.76 MMBTU/H

NOX

0.2000 LB/MMBTU

SIP

HEATER, HOT OIL

14.80 MMBTU/H

NOX

0.2000 LB/MMBTU

SIP

INCINERATOR, SULFUR PLANT

2.50 MMBTU/H

SO2

79.8000 LB/H

BACT

31.9000 LB/MMBTU
5 LTD CLAUS

90.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER NY-0002

REVIEW STATUS:

INITIAL REVIEW POST STARTUP

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

08/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS 12.50 MHCFO

COMPANY NAME/SITE LOCATION MOUNTAIN FUEL SUPPLY UJNTA, WY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 08/01/78
 PERMIT NO. CT-117 ESTIMATED DATE OF START-UP-- 1980
 DETERMINATION MADE BY WYOMING AGO (3071)-332-3144
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

INCINERATOR, SULFUR PLANT SO2 0.1830 X V AT 0% O2, DRY BASIS BACT
 CO 0.0523 X V AT 0% O2, MET BASIS BACT
 TURBINE, GAS, & EA 766.00 HP CO 0.0072 X V AT 0% O2, MET BASIS BACT
 DESIGN

NOTES
 BACT ANALYSIS - SCOT VS. CBA

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS:
 ID NUMBER WY-0010 SOURCE TYPE CODE 5.12
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION PACIFIC ALASKA LNG ASSOCIATES

KENAI, AK

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 8423-AA002
DETERMINATION MADE BY ALASKA DEC
(AGENCY)

DATE OF PERMIT ISSUANCE-- 01/30/84
ESTIMATED DATE OF START-UP-- 1987
(907)-465-2666
(PHONE)

DAVE ESTES
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS

... PCT EFF

HEATER, PROCESS, GAS FIRED, 5

NOX

30.0000 NG/J
0.0900 LB/THBTU
LOW NOX BURNERS

BACT

NOTES

THIS BACT DETERMINATION RESULTED FROM AN 18 MONTH REQUEST FOR EXTENSION AT A FACILITY PREVIOUSLY PERMITTED BY EPA REGION 10.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/13/1984

10 NUMBER AK-0006

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION PHILADELPHIA GAS WORKS

PHILADELPHIA, PA

PHILADELPHIA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 78PA03

DETERMINATION MADE BY

EPA REGION III

(AGENCY)

VERNON BUTLER

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/15/79

ESTIMATED DATE OF START-UP--

(215)-597-2711

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

BOILER

110.00 MBTU/H

PM

5.4000 LB/H

SO2

75.0000 LB/H

STRET FORD

LOW S FUEL

NOX

74.0000 LB/H

VOC

91.0000 T/YR

DBL SEALS, FLOAT, ROOF TANKS

BACT

BACT

STORAGE TANKS

1.00 MBBL/YR

NOX

74.0000 LB/H

VOC

91.0000 T/YR

DBL SEALS, FLOAT, ROOF TANKS

BACT

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: 04/01/1993

INITIAL REVIEW POST STARTUP

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ID NUMBER PA-0002

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE

NATURAL GAS/GASOLINE PROCESSING PLANTS

30.00 MTCF/D

COMPANY NAME/SITE LOCATION PHILLIPS PETROLEUM CO.

, NO

WILLIAMS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO.

DETERMINATION MADE BY NORTH DAKOTA SHD

(AGENCY)

GARY HELBING

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/25/82

ESTIMATED DATE OF START-UP-- 1983

(701)-224-2348

(PHONE)

... & BASIS

PROCESSES SUBJECT

TO THIS PERMIT

THROUGHPUT

CAPACITY

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... PCT EFF

INCINERATOR STACK

30.00 MTCF/D

S02

93.3000 LB/H

CLAUS PLANT

BACT

98.50

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

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ID NUMBER ND-0002

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION PHILLIPS PETROLEUM CO.
HWY 126 15 MI. S. OF MALJAHAR

MALJAHAR, NM

LEA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-NM-189
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

DATE OF PERMIT ISSUANCE-- 10/08/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

JOHN BENHAM
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

ENGINE, I.C. COMPRESSOR, 2 EA 585.00 HP EA

NOX

11.0000 G/HP-H
AIR/FUEL RATIO

BACT

NOTES

2 INTERNAL COMBUSTION COMPRESSOR ENGINES.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER NM-0003

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION PHILLIPS PETROLEUM CO.
PHILLIPS BUILDING BARTLESVILLE, TX 74009

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-314
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOE WINKLER
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/30/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. COMPRESSOR ENGINES	650.00 HP EA	NOX	12.4000 G/HP-H AIR/FUEL RATIO	BACT
TURBINE COMPRESSOR ENGINES	3000.00 HP EA	NOX	1.8000 G/HP-H NORMAL OPERATION	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER TX-0045

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS 40.00 MMSCFD
 COMPANY NAME/SITE LOCATION PIONEER GAS PRODUCTS CO. FRITCH, TX POTTER COUNTY

DETERMINATION IS BACT PERMIT NO. 9478 DATE OF PERMIT ISSUANCE-- 09/11/84
 DETERMINATION MADE BY TEXAS ACB ESTIMATED DATE OF START-UP-- 1984
 (AGENCY) E. KASPRZYK (512)-451-5711 (PHONE)
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GAS SWEETENING UNIT	40.00 MMSCFD	S02 VOC	35.3000 T/YR 0.0000 T/YR FLARE W/IGNITOR & PILOT	BACT BACT
		S03 H2S	0.2000 T/YR 0.1000 T/YR FLARE W/IGNITOR & PILOT	BACT BACT

NOTES -----
 SCC -- 3-10-002-01, SIC - 4922 COMPANY ADDRESS IS P.O. BOX 511, AMARILLO, TEXAS, 79136

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS:
 ID NUMBER TX-0155
 SOURCE TYPE CODE 5.12
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

```

=====
SOURCE TYPE/SIZE                NATURAL GAS/GASOLINE PROCESSING PLANTS
=====
COMPANY NAME/SITE LOCATION      PLACID OIL CO.
                                COMPRESSOR STATION A
=====
DETERMINATION IS BACT
PERMIT NO. PSD-LA-524
DETERMINATION MADE BY          LAGD/EPA REGION VI
                                (AGENCY)
                                BHARAT CONTRACTOR
                                (AGENCY CONTACT PERSON)
                                GOLDONNA, LA
                                NATCHITOCHES PARISH
=====
DATE OF PERMIT ISSUANCE-- 09/07/84
ESTIMATED DATE OF START-UP-- 1986
(504)-342-8940
(PHONE)
=====
PROCESSES SUBJECT TO THIS PERMIT  THROUGHPUT CAPACITY
COMPRESSOR, NAT. GAS              4000.00 HP
=====
POLLUTANT EMISSION LIMITS      ... & BASIS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
=====
NOX      147.2000 LB/H
VE        645.0000 T/YR
NO VISIBLE EMISSION
=====
BACT
=====

```

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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REVIEW STATUS: INITIAL REVIEW POST STARTUP

ID NUMBER LA-0056

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE
NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION
PLACID OIL CO.
COMPRESSOR STATION B

DATE OF PERMIT ISSUANCE-- 09/07/84
ESTIMATED DATE OF START-UP-- 1986
(50%)-342-8940
(PHONE)

BHARAT CONTRACTOR
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/07/84
ESTIMATED DATE OF START-UP-- 1986
(50%)-342-8940
(PHONE)

PROCESS SUBJECT
TO THIS PERMIT
COMPRESSOR, NAT. GAS

THROUGHPUT
CAPACITY
4000.00 HP

POLLUTANT
EMITTED
NOX 147.2000 LB/H
VE 645.0000 T/YR
NO VISIBLE EMISSION

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

GOLDONNA, LA NATCHITOCHES PARISH

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
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INITIAL REVIEW POST STARTUP
REVIEW STATUS:
ID NUMBER LA-0056A
SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION PLACID OIL CO.
COMPRESSOR STATION C

GOLDONNA, LA

NATCHITOCHES PARISH

DETERMINATION IS
PERMIT NO. PSD-LA-526
DETERMINATION MADE BY

LAQD/EPA REGION VI
(AGENCY)

BHARAT CONTRACTOR
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/07/84
ESTIMATED DATE OF START-UP-- 1986
(504)-342-8940
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION' LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

COMPRESSOR, NAT. GAS

4000.00 HP

NOX 147.2000 LB/H
VE 625.0000 T/YR

NO VISIBLE EMISSION

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

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ID NUMBER LA-00568

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION PROCESS EQUIPMENT CORP.

HAYFIELD, MI

GRAND TRAVERSE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. 813-81
 DETERMINATION MADE BY MICHIGAN DNR
 (AGENCY)

DATE OF PERMIT ISSUANCE-- 03/23/82
 ESTIMATED DATE OF START-UP-- 1982
 (517)-322-1333
 (PHONE)

DAVID FERRIER
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT
 TO THIS PERMIT
 SOUR GAS SWEETENER

THROUGHPUT
 CAPACITY
 10.00 MMSCFD

POLLUTANT
 EMITTED

EMISSION LIMITS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
 ... PCT EFF

S02

81.1000 LB/MMSCF
 CLAUS UNIT

85.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 PAGE 6- 553

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983 03/13/1984
 SOURCE TYPE CODE 5.12

ID NUMBER MI-0027

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS 39.00 MBTU/H

COMPANY NAME/SITE LOCATION REPUBLIC REFINING CO.

JOHNS, MS

RANKIN COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) FSD-MS-037
DETERMINATION MADE BY MISSISSIPPI DHR
(AGENCY)

DATE OF PERMIT ISSUANCE-- 08/03/81
ESTIMATED DATE OF START-UP--
(601)-354-2550
(PHONE)

DWIGHT WILEY
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY 50.00 MHCFT/D

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

NAT. GAS PROCESSING-SULFUR RECON 50.00 MHCFT/D

S02 0.0030 LB/H EA
TREATED NAT. GAS FOR BOILERS

BACT

NOTES -----
TWO BOILERS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER MS-0004

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS
 COMPANY NAME/SITE LOCATION SHELL OIL CO.
 SECTION 10
 FREDERIC TOWNSHIP, MI
 CRAWFORD COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. 617-82
 DETERMINATION MADE BY MICHIGAN DNR
 (AGENCY)
 LAURA STEINBERGER
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 04/19/83
 ESTIMATED DATE OF START-UP-- 1985
 (517)-322-1333
 (PHONE)

PROCESSES SUBJECT THROUGHPUT EMISSION LIMITS ... & BASIS
 TO THIS PERMIT CAPACITY
 GAS SWEETENING FACILITY 7.00 MMCF/D
 POLLUTANT EMITTED
 CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

S02
 S02 184.0000 LB/H
 540.0000 LB/H
 3-STAGE CLAUSS UNIT 93.50
 GROUND LEVEL INCINERATOR 99.90

NOTES
 2ND ALTERNATE LIMIT - 2100 LB/D

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/19/1984
 ID NUMBER MI-0031
 SOURCE TYPE CODE 5.12
 PAGE 6- 555

05/21/1985

SOURCE TYPE/SIZE	NATURAL GAS/GASOLINE PROCESSING PLANTS	117.00 MHSCFD

COMPANY NAME/SITE LOCATION	SID RICHARDSON CARBON & GASOLINE CO.	KERMIT, TX

DETERMINATION IS BACK FOR A MODIFIED SOURCE.
 PERMIT NO. 2724
 DETERMINATION MADE BY
 TEXAS A&B
 (AGENCY)
 LES MONTGOMERY
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 01/14/81
 ESTIMATED DATE OF START-UP-- 1981
 (512)-451-5711
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
NATURAL GAS TREATING PLANT	117.00 M3SCFD	S02	816.0000 T/YR SELECTOX S RECOV. UNIT	95.00

SELECTOX SRU CATALYTICALLY OXIDIZES HYDROGEN SULFIDE EXTRACTED FROM RAW NATURAL GAS TO ELEMENTAL SULFUR. THIS UNIT IS A THREE STAGE PROCESS ACHIEVING AT LEAST 95% CONVERSION OF H₂S. THE REMAINDER IS INCINERATED TO SO₂. THIS IS A SMALL UNIT IN AN ISOLATED LOCATION.

(*) INDICATES DATA WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: 06/01/1983

INITIAL REVIEW POST STARTUP

5.12 SOURCE TYPE CODE

ID NUMBER TX-0094

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS 12.00 MTCFD

COMPANY NAME/SITE LOCATION UNION TEXAS PETROLEUM CORP.

BAIRD, TX

CALLAHAN COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 9502
DETERMINATION MADE BY TEXAS ACB
(AGENCY)

KAREN HORNE
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/25/85
ESTIMATED DATE OF START-UP-- 1985
(512)-451-5711
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

GAS SHEETING

12.00 MTCFD

H2S 232.0000 T/YR
FLARE

BACT
99.00

COMPRESSOR ENGINE, 4 EA, MAJESW 1042.00 HP

VOC 0.2000 G/HP-H
CATALYST

BACT
70.00

NOX 5.0000 G/HP-H
CATALYST

BACT
70.00

CO 3.2000 G/HP-H
CATALYST

BACT
70.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

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ID NUMBER TX-0163

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE

NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION WARREN PETROLEUM CO.

CA

KERN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 2023010 A

DETERMINATION MADE BY

KERN COUNTY APCD
(AGENCY)

TOM PAXSON
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/10/85
ESTIMATED DATE OF START-UP--
(805)-861-3682
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

CO2 REMOVAL SYSTEM

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

VOC

I & M OF FUGITIVE EMISSION SOURCES

NOTES -----

MODIFICATION OF EXISTING CO2 REMOVAL SYSTEM, ADDITION OF 4 MEMBRANE MODULES.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS:

ID NUMBER CA-0068A

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE

NATURAL GAS/GASOLINE PROCESSING PLANTS

10.00 MHCDF

COMPANY NAME/SITE LOCATION

WARREN PETROLEUM CO.
20 MI. NW OF TATUM

VADA, NM 88267

LEA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-NM-156M-1
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

TOM DIGGS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/23/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

ACID GAS FLARE

10.00 MHCDF

POLLUTANT
EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

S02

703.0000 LB/H
0.0016 LB/SCF

DIETHANOL AMINE UNIT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER NM-0005

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

24.00 MMCFD

NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION WARREN PETROLEUM CO.

, NO

BILLINGS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO.

DETERMINATION MADE BY NORTH DAKOTA SHD

(AGENCY)

TERRY O'CLAIR

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/12/83

ESTIMATED DATE OF START-UP--

(701)-224-2346

(PHONE)

PROCESSES SUBJECT

TO THIS PERMIT

INCINERATOR STACK

THROUGHPUT

CAPACITY

POLLUTANT

EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS

... PCT EFF

SO2

534.0000 LB/H

CLAUS & CBA

BACT

98.60

NOTES

THIS IS A MAJOR MODIFICATION OF AN EXISTING SOURCE, THE EXISTING SOURCE CURRENTLY PROCESSES 20 - 24 MMCF/D OF GAS WITH AN EMIS
SION RATE LIMITED TO 269 LB/H. AFTER EXPANSION THE NEW SO2 EMISSION RATE WILL BE 534 LB/H & CAN HANDLE
ABOUT ANOTHER 30 MMCF/D.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

ID NUMBER ND-0001

SOURCE TYPE CODE 5.12

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION HARREN RED. CO.

CA

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 2023008

DETERMINATION MADE BY

KERN COUNTY APCD
(AGENCY)

IVAN NEO
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/19/83
ESTIMATED DATE OF START-UP--
(805)-861-3682
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

I.C. ENGINE, NATURAL GAS, 3 EA 2133.00 HP

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... A BASIS
... PCT EFF

NOX 69.0600 LB/D

CATALYTIC CONVERTOR

86.00

NOTES

STATE FILE # A330-020

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

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ID NUMBER CA-0068

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ASPHALT & ASSOCIATED PRODUCTS MFG./PROCESSING

COMPANY NAME/SITE LOCATION KERNRIDGE OIL CO.
BELBRIDGE OIL FIELD

, CA

KERN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) SJ-79-26
DETERMINATION MADE BY EPA REGION IX
(AGENCY)

DON HARVEY
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/14/81
ESTIMATED DATE OF START-UP--
(415)-974-8223
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

STEAM GEN., 11 EA

50.00 M³BTU/H

SO2	0.0650 LB/M ³ BTU	0.0650 LB/M ³ BTU	95.00
	1.2000 % S FUEL OIL		BACT
NOX	SO2 SCRUBBER W/ EDUCTOR/VENTURI		50.00
	0.2000 LB/M ³ BTU		LAER
PM	LOW NOX BURNERS EXCESS O2 CONTROLLERS		50.00
	0.0570 LB/M ³ BTU		LAER
PM	SO2 SCRUBBER W/ EDUCTOR/VENTURI		50.00
	0.0100 LB/M ³ BTU		LAER
	SCRUBBER W/ ESP SECTION		90.00

OIL WELL VENTS - EXISTING

VOC	NONE		85.00
	VAPOR RECOVERY		

OIL WELL VENTS - NEW

VOC	NONE		100.00
	SHUT IN WELLS		

NOTES -----
PH EMISSIONS FROM ONE OF THE UNITS WILL BE CONTROLLED WITH AN ESP WHICH IS AN INNOVATIVE TECHNOLOGY AS APPLIED TO THERMALLY ENHANCED OIL RECOVERY (TEOR).

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP-
REVIEW STATUS: 04/01/1993 04/04/1984

ID NUMBER CA-0009

SOURCE TYPE CODE 5.13

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ASPHALT & ASSOCIATED PRODUCTS MFG./PROCESSING 130.00 T/YR

COMPANY NAME/SITE LOCATION R.A. CHILDS

, UT

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. MIN 083182-5T
DETERMINATION MADE BY UTAH BAQ
(AGENCY)

DON ROBINSON
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/08/82
ESTIMATED DATE OF START-UP-- 1983
(801)-533-6108
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT
DRUM DRYER

THROUGHPUT
CAPACITY
130.00 T/H

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

PH 0.0200 GR/DSCF
1.4900 LB/H

VE 20.0000 % OPACITY
VENTURI SCRUBBER

99.00

NOTES -----
MOBILE ASPHALT PLANT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 02/13/1984
ID NUMBER UT-0030
SOURCE TYPE CODE 5.13

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ASPHALT & ASSOCIATED PRODUCTS MFG./PROCESSING 30000.00 GAL
 COMPANY NAME/SITE LOCATION US OIL & REFINING CO.
 3001 MARSHALL AVE. TACOMA, WA 98401

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. N/C 2455 DATE OF PERMIT ISSUANCE-- 08/15/83
 DETERMINATION MADE BY PUGET SOUND APCA ESTIMATED DATE OF START-UP-- 1984
 (AGENCY) HARRY MATTERS (206)-344-7334
 (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ASPHALT BLOW STILL, 2	15000.00 GAL EA	PH	0.0200 LB/T ASPHALT CHARGED INCINERATOR	95.00
		S02	0.1000 GR/DSCF H2S IN FUEL GAS CONTINUOUS MONITORING	

NOTES

APPROVED NOTICE OF CONSTRUCTION AND TRANSMITTAL LETTER DATED 08/15/83. ASPHALT TRUCK LOADING RACK WITH HEAF CONTROL, AND 5 ASP
 MALT STORAGE TANKS WITH HIGH ENERGY AIR FILTER, HEAF, CONTROL.
 SOURCE CLAIMS CONFIDENTIALITY FOR DETAILS OF PROCESS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/13/1984

ID NUMBER WA-0009
 SOURCE TYPE CODE 5.13

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE)

COMPANY NAME/SITE LOCATION AMINOIL USA, INC.

HUNTINGTON BEACH, CA 92648

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NSR-4-9 LA-62-01
DETERMINATION MADE BY EPA REGION IX
(AGENCY)

DAVID SOLOMON
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/04/82
ESTIMATED DATE OF START-UP--
(415)-974-8240
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

TURBINE & WASTE HEAT BOILER

6464.00 KW

SOX

14.0000 LB/H

FGD SYSTEM

BACT

BE

0.0000 LB/H

WET SCRUBBER & FGD SYSTEM

95.00

99.00

NOTES

36.0 BBL/S/H OF 1.34% SULFUR CRUDE OIL

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER CA-0035

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 04/04/1984

SOURCE TYPE CODE 5.14

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE)

COMPANY NAME/SITE LOCATION BEREY HOLDING CO.
MIDWAY-SUNSET OIL FIELD

, CA

KERN COUNTY

DETERMINATION IS FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) SJ-79-17
DETERMINATION MADE BY EPA REGION IX
(AGENCY)

DON HARVEY
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/23/81
ESTIMATED DATE OF START-UP--
(415)-974-8223
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

... & BASIS
... PCT EFF

COMPRESSOR, ROTARY SCREW, 2 EA 500.00 HP

VOC 690.0000 PPM (AS CARBON)

INCINERATION IN STEAM GENERATOR AT 2600 F

COMPRESSORS, RECIP. BOOSTER, 2 *

VOC 10.5000 LB/H 3% O2

95.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 04/04/1984

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ID NUMBER CA-0008

SOURCE TYPE CODE 5.14

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 450.00 MMBTU/H

COMPANY NAME/SITE LOCATION CHEVRON USA, INC.
P.O. BOX 5355 BAKERSFIELD, CA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NSR-4-4-8 SJ-79-32 DATE OF PERMIT ISSUANCE-- 07/16/82
DETERMINATION MADE BY EPA REGION IX ESTIMATED DATE OF START-UP--
(AGENCY) (415)-974-8215
BOB BAKER (PHONE)
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, 9 EA	390.00 GAL/H	SO2	18.6000 LB/H NET SCRUBBERS	BACT 90.00
		PM	3.6000 LB/H NET SCRUBBERS	LAER 50.00

(*) INDICATES DATUM HAS TRUNCATED FOR THIS TABLE.
INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 04/04/1984
ID NUMBER CA-0037 SOURCE TYPE CODE 5.14
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 24.00 MMCF

COMPANY NAME/SITE LOCATION EXXON CO NEW ORLEANS, MS HINDS COUNTY
P. O. BOX 60626

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. MS 030
DETERMINATION MADE BY MISSISSIPPI DHR
(AGENCY)
DWIGHT WILEY
(AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/04/81
ESTIMATED DATE OF START-UP-- 1981
(601)-354-2550
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY
TEST WELL 25.00 MMCF/D
S02 745.0000 T/D 30 D MAX
FLARE
99.00

NOTES
TEST FACILITY -- EXPECTED LIFE 120 DAYS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
SOURCE TYPE CODE 5.14
ID NUMBER MS-0001

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 426.00 BBL/D

COMPANY NAME/SITE LOCATION GEOKINETICS INC., OIL SHALE 40 MILES S. VERNAL, UT UTAH COUNTY

DETERMINATION IS BACT PERMIT NO. DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 11/13/80 ESTIMATED DATE OF START-UP-- (303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY 650.00 HP POLLUTANT EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

GENERATOR	NOX	36.9000 LB/H	DESIGN	BACT
VE	20.0000	% OPACITY		
NOX	45.1000	LB/H		BACT
	NONE			0.00
SO2	135.3000	LB/H		BACT
	NONE			0.00
VE	20.0000	% OPACITY		

NOTES ----- 3.5 YR OPERATION, LIMITED EXPERIMENTAL VARIANCE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP REVIEW STATUS: 04/01/198- ID NUMBER UT-0007 SOURCE TYPE CODE 5.14

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 5000.00 HP

COMPANY NAME/SITE LOCATION GETTY OIL CO.

, CA

KERN COUNTY

DETERMINATION IS LAER FOR A NEW SOURCE.

PERMIT NO. 4003571-573

DETERMINATION MADE BY KERN COUNTY APCD

(AGENCY)

TOM PAXSON

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/09/84

ESTIMATED DATE OF START-UP--

(805)-861-3482

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

TURBINE, GAS 5000.00 HP

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... BASIS ... PCT EFF

NOX

182.0000 LB/D

H2O INJECTION, 0.8-1

LAER

60.00

NOTES

OPERATION'S - - - 24 H/D, 7 D/WK, 52 WK/YR. GAS TURBINE FOLLOWED BY WASTE HEAT RECOVERY STEAM GENERATOR FOR TEOR OPERATIONS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 09/01/1984 09/01/1984

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ID NUMBER CA-0060

SOURCE TYPE CODE 5.14

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE
CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE)

COMPANY NAME/SITE LOCATION MOBIL OIL

CA

KERN COUNTY

DETERMINATION IS LAER FOR A NEW SOURCE.

PERMIT NO. 4011216--7
DETERMINATION MADE BY

KERN COUNTY APCD
(AGENCY)

TOM PAXSON
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/01/84
ESTIMATED DATE OF START-UP--
(805)-861-3682
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

VAPOR CONTROL SYS, 2, WELL VENT*

POLLUTANT EMISSION LIMITS
EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

VOC 1030.0000 LB/D
INCINERATOR

LAER
99.00

NOTES

COST FIGURES WERE BASED ON KCAPCD EMISSIONS FACTORS, RCVD HC NOT INCLUDED. OPERATES 24 H/D, 365 D/YR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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REVIEW STATUS:

ID NUMBER CA-0100

INITIAL REVIEW POST STARTUP

SOURCE TYPE CODE 5.14

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 187.50 MMBTU/H

COMPANY NAME/SITE LOCATION MOBIL OIL , CA KERN COUNTY

DETERMINATION IS LAER FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 09/01/84
 PERMIT NO. 401115.6.7 ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY KERN COUNTY APCD (605)-661-3662
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT THROUGHPUT EMISSION LIMITS ... & BASIS
 TO THIS PERMIT CAPACITY CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
 STEAM GENERATOR, 3, GAS FIRED 62.50 MMBTU/H EA VOC GOOD COMBUSTION LAER

NOTES -----
 OPERATES 24 H/D, 7 D/WK, 42 WK/YR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS: SOURCE TYPE CODE 5.14
 ID NUMBER CA-0108
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 225.00 MMSCFD

COMPANY NAME/SITE LOCATION MOBIL OIL EXPLORATION , AL MOBILE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. AL-078
DETERMINATION MADE BY ALABAMA APCD (AGENCY)
SUE ROBERTSON (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/16/81
ESTIMATED DATE OF START-UP-- (205)-834-8570 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
NAT. GAS SULFUR REMOVAL	225.00 MMSCFD	SO2	200.0000 LB/H EA	CLAUS AND SCOT TAIL GAS REMOVAL	BACT 99.86

DIESEL ENGINES, 4 RIGS	1100.00 HP/ENGINE	CO	9.4000 LB/H-RIG	NONE	
		SO2	7.3000 LB/H-RIG	NONE	
		NOX	71.6000 LB/H-RIG	LOW S FUEL	
		PM	3.4000 LB/H-RIG	NONE	

SUPPLEMENTAL BOILER	50.00 MMBTU/H	NOX	0.2000 LB/MMBTU	STAGED COMBUSTION & LOW EXCESS AIR	54.00
		SO2	1.0000 LB/H	LOW S FUEL	

SULFUR DEPOT BOILER	5.00 MMBTU/H	NOX	0.2000 LB/MMBTU	STAGED COMBUSTION & LOW EXCESS AIR	37.00
		SO2	2.2000 LB/H	LOW S FUEL	

TURBINE GENERATOR, GAS-FIRED	7.50 MW	NOX	175.0000 PPM BY VOL	NONE	
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(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
PAGE 6- 573
ID NUMBER AL-0010
INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
SOURCE TYPE CODE 5.14

(CONTINUED) MOBIL OIL EXPLORATION

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				

PLATFORM GENERATOR, 5 EA, GAS F# 661.00 HP/ENGINE

S02	1.0000 LB/H LOW S FUEL
NOX	146.0000 LB/H-PLATFORM NONE
CO	146.0000 LB/H-PLATFORM NONE
S02	1.0000 LB/H-PLATFORM LOW S FUEL

NOTES -----
DRILLING PERMIT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER AL-0010

SOURCE TYPE CODE 5.14

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 1.00 HBBL/D

COMPANY NAME/SITE LOCATION OXY-LOGAN WASH MODIF. 1980

NEAR DE BEQUE, CO

GARFIELD COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. DATE OF PERMIT ISSUANCE-- 06/27/80
 DETERMINATION MADE BY EPA REGION VIII ESTIMATED DATE OF START-UP--
 (AGENCY) (303)-837-3763
 (AGENCY CONTACT PERSON) (PHONE)

JOHN DALE

PROCESSES SUBJECT TO THIS PERMIT
 BOILER, ETC

THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS PCT EFF
1000.00 BBL/D	CO	2.0000 LB/H	BACT
	VOC	3.0000 LB/H	BACT
	NOX	52.0000 LB/H	BACT
	PM	7.0000 LB/H	BACT
	SO2	31.0000 LB/H	BACT
	CO	3640.0000 LB/H	BACT
	VOC	154.0000 LB/H	BACT
	H2S	376.0000 LB/H	BACT

RETORT

NOTES -----
 OPERATION OVER IN 1982

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
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INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER CO-0009
 SOURCE TYPE CODE 5.14

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE)

COMPANY NAME/SITE LOCATION PARAHIO DEVELOPMENT CORP.

, UT

UINTAH COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. DATE OF PERMIT ISSUANCE-- 11/16/82
 DETERMINATION MADE BY UTAH BAC ESTIMATED DATE OF START-UP-- 1990
 (AGENCY) (801)-533-6108
 (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOLTING, SCALING, HANDLING, DRI*	75000.00 T/D SHALE	FUG*		

BLASTING	54000.00 LB ANFO/D	CO	WATER SPRAYING	50.00
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CRUSHING	75000.00 T/D	PM	SETTLING	50.00
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IN MINE TRANSFER	75000.00 T/D	PM	0.0150 GR/DSCF BAGHOUSE	99.90
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MINE MOBILE EQUIPMENT	11730.00 GAL/D DIESEL*	PM	0.0150 GR/DSCF BAGHOUSE	99.00
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		PM	11.0000 LB/MGAL	50.00
--	--	----	-----------------	-------

		NOX	385.2000 LB/MGAL	10.00
--	--	-----	------------------	-------

		SO2	31.2000 LB/MGAL	90.00
--	--	-----	-----------------	-------

		VOC	2.8000 LB/MGAL	95.00
--	--	-----	----------------	-------

		CO	CATALYTIC CONV. LB/MGAL	
--	--	----	-------------------------	--

			CATALYTIC CONV.	
--	--	--	-----------------	--

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER UT-0024
 SOURCE TYPE CODE 5.14

(CONTINUED) PARAKO DEVELOPMENT CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
MATERIAL HANDLING	75000.00 T/D			
		PM	0.0100 GR/DSCF BAGHOUSE	99.00
		PM	0.0150 GR/DSCF BAGHOUSE	99.00
		PM	0.0200 GR/DSCF WET SCRUBBERS	99.00
STORAGE PILES	VARIOUS SIZ*	PM		
			WATER SPRAYS	50.00
		PM	15.0000 LB/MMCF	
		CO	17.0000 LB/MMCF	
		VOC	3.0000 LB/MMCF	
		NOX	161.0000 LB/MMCF	
			LOW NOX BURNERS	30.00
		SO2	0.6000 LB/MMCF	
		PM	0.0150 LB/MMBTU	
		CO	0.0170 LB/MMBTU	
		VOC	0.0030 LB/MMBTU	
		NOX	0.1610 LB/MMBTU	
			LOW NOX BURNERS	30.00
		SO2	9.8300 LB/H	99.60
			HOLMES STRETFORD UNIT	
HYDROTREATER FEED FURNACE	41.25 MMBTU/H	PM	15.0000 LB/MMCF	
		CO	17.0000 LB/MMCF	
		VOC	3.0000 LB/MMCF	
		NOX	161.0000 LB/MMCF	
		SO2	0.6000 LB/MMCF	30.00
			LOW NOX BURNERS	
POKER GENERATION FACILITY	2110.00 MMBTU/H	PM	0.0150 LB/MMBTU	
		CO	0.0170 LB/MMBTU	
		VOC	0.0030 LB/MMBTU	
		NOX	0.2500 LB/MMBTU	
			WATER WASH OF RETORT OFF GAS TO REMOVE NH3	NSPS
		NOX	0.2000 LB/MMBTU	97.00
			WATER WASH OF RETORT OFF GAS TO REMOVE NH3	NSPS
		SO2	0.1400 LB/MMBTU	97.00
			REMOVE HCS BEFORE COMBUST.	99.60

(*) INDICATES DATUM HAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1933

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ID NUMBER UT-0024

SOURCE TYPE CODE 5.14

(CONTINUED) PARADO DEVELOPMENT CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PACKAGE BOILER	14.50 MBTU/H #2 *	PH SO2 CO VOC NOX	2.0000 LB/HGAL 0.5000 % S CONTENT 5.0000 LB/HGAL 1.0000 LB/HGAL 22.0000 LB/HGAL	
STORAGE TANKS, 4	53000.00 BBL	VOC	INTERNAL FLOATING ROOF & PRIMARY SEAL	95.00
CRUDE SHALE OIL STORAGE TANKS, 7	150000.00 EBL	VOC	EXT. FLOAT. ROOF W/PRIMARY & SEC. SEAL	95.00

NOTES

-.015 PM LIMITATION IS FOR LARGER BAGHOUSES ON CRUSHERS. PAR. GEN. - 3 STACKS GAS TURBINE & WASTE HEAT BOILER EA. BOILERS PROVIDE 36.73% HEAT INPUT. 9 OTHER TANKS WILL CONTAIN EITHER #2 FUEL OIL, PROPANE (CRYOGENIC), DIESEL FUEL OR GASOLINE. NONE OF THEM SUBJECT TO NSPS. SO2 EMISSIONS FROM POWER GENERATION FACILITIES INCLUDE RETORT OFF GAS AND WASTE WATER TREATMENT ACID GAS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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REVIEW STATUS: 04/01/1983

ID NUMBER UT-0024

SOURCE TYPE CODE 5.14

INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 2.00 MBSL/D

COMPANY NAME/SITE LOCATION RIO BLANCO OIL SHALE-#1 NEAR RANGELY, CO RIO BLANCO COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 12/20/81
 PERMIT NO. ESTIMATED DATE OF START-UP--
 DETERMINATION MADE BY EPA REGION VIII (303)-637-3763
 (AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS
2 BOILERS	198.00 MMBTU/H	NOX	39.6000 LB/H	BACT
HEATER	5.00 MMBTU/H	NOX	1.0000 LB/H	BACT
LURGI RETORT	2000.00 BBL/D OIL S*	NOX	127.0000 LB/H	BACT
		SO2	18.0000 LB/H	BACT
		PH	39.6000 LB/H	BACT
ORE CONV-STKPILE	4400.00 T/D SHALE	PH	0.4000 LB/H	99.00
ORE TRANSFER	4400.00 T/D SHALE	PH	0.4000 LB/H	BACT
ORE LOADOUT	4400.00 T/D SHALE	PH	0.4000 LB/H	99.00
PRIM. CRUSH/SCR	4400.00 T/D SHALE	PH	0.4000 LB/H	BACT
PROC SHALE TRANS., FEED	4400.00 T/D SHALE	PH	0.4000 LB/H	99.00
				BACT
				99.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER CO-0013 SOURCE TYPE CODE 5.14

(CONTINUED) RIO BLANCO OIL SHALE-#1

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PROC SHALE TRANS. DISP	4400.00 T/D SHALE	PM	0.4000 LB/H BAGHOUSE	BACT 99.00
SEC. CRUSH/SCR	4400.00 T/D SHALE	PM	0.3200 LB/H BAGHOUSE	BACT 99.00
PROD. GAS INC/SCRUB	70.00 MMSTU/H	SO2	9.7000 LB/H SCRUBBER	BACT 80.00
		NOX	24.0000 LB/H	

NOTES -----
THREE YEAR OPERATION PLANNED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993
SOURCE TYPE CODE 5.14

ID NUMBER CO-0013

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 50.00 MMBTU/H

COMPANY NAME/SITE LOCATION TEXAS TAR SANDS, LTD LARVOR, TX HAVERICK COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. PERMIT NO. 9075 DATE OF PERMIT ISSUANCE-- 06/24/82
 DETERMINATION MADE BY TEXAS ACB ESTIMATED DATE OF START-UP-- 1982
 (AGENCY) JAMES CROCKER (512)-451-5711
 (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STEAM GENERATOR	50.00 MMBTU/H	PM	0.0940 LB/MMBTU	FABRIC FILTER	99.30
		SO2	1.2000 LB/MMBTU	LIMESTONE INJECTION	78.00
COAL & LIMESTONE STORAGE/HANDLING		PM	1.3000 LB/H	DUST CONTROL SYSTEM	

NOTES -----
 THIS IS A COAL FIRED SYSTEM. EMISSION LIMITS ARE BACT, DETERMINED BY TECHNOLOGY & ECONOMICS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER TX-0085 SOURCE TYPE CODE 5.14
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 45.00 M3BL/D

COMPANY NAME/SITE LOCATION TOSCO OIL SHALE-1981 NEAR BOHANZA, UT UTAH COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. DATE OF PERMIT ISSUANCE-- 12/09/81
 DETERMINATION MADE BY EPA REGION VIII ESTIMATED DATE OF START-UP--
 (AGENCY) (303)-837-3763
 JOHN DALE (PHONE)
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... 1 BASIS ... PCT EFF
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2 AUX BOILERS

CO	2.9000 LB/H			BACT
NOX	18.0000 LB/H	DESIGN		BACT
PM	3.2000 LB/H			BACT
SO2	8.0000 LB/H	LOW S COAL		BACT

FEED HEATER

CO	1.1000 LB/H			BACT
NOX	7.0000 LB/H			BACT
PM	1.2000 LB/H			BACT
SO2	3.1000 LB/H			BACT

MINE VENTS

PM	10.6000 LB/H			BACT
	14.9000 LB/H	SETTLING		

OIL REBOILER

CO	1.5000 LB/H			BACT
NOX	9.1000 LB/H			BACT
PM	1.6000 LB/H			BACT
SO2	4.0000 LB/H	LOW S FUEL		BACT

ORE STORAGE

PM	4.7000 LB/H	BAGHOUSE		BACT
				99.70

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 SOURCE TYPE CODE 5.14
 ID NUMBER UT-0020

(CONTINUED) TOSCO OIL SHALE-1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
RECL TUNNEL		PH	6.2000 LB/H BAGHOUSE	BACT 99.70
SEC CRUSHER		PH	36.6000 LB/H BAGHOUSE	BACT 99.70
SPENT SHALE STOR	45.00 MBBL/D	PH	7.9000 LB/H WATER	BACT 50.00
2 SO2 REC.PLANTS		SO2	92.2000 LB/H CLAUS & TAILGAS	BACT 99.60
4 REFORM FURN		CO NOX PH SO2	10.8000 LB/H 90.3000 LB/H 12.0000 LB/H 30.1000 LB/H LOW S FUEL	BACT BACT BACT BACT
6 ELUTRIATORS		NOX PH	15.8000 LB/H 42.0000 LB/H SCRUBBER	BACT BACT 99.99 BACT
6 PROCESS SHALE WET		SO2	5.3000 LB/H	BACT 98.40
6 PREHEAT STK		PH	43.2000 LB/H SCRUBBER	BACT 98.40
		VOC	303.0000 LB/H INCINERATOR	BACT 85.00
		NOX PH	1588.2000 LB/H 90.0000 LB/H SCRUBBER	BACT BACT 99.99 BACT
		SO2	62.5000 LB/H ABSORPTION	BACT 95.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER UT-0020

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 5.14

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 10.00 MBL/D

COMPANY NAME/SITE LOCATION UNION OIL SHALE #1 NEAR PARACHUTE, CO GARFIELD COUNTY

DETERMINATION IS PERMIT NO. DATE OF PERMIT ISSUANCE-- 05/27/81
 DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (303)-837-3763 ESTIMATED DATE OF START-UP--
 (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY EMISSION LIMITS POLLUTANT EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

H2 CHG HTR	24.00 MTSCFD	NOX	2.8000 LB/H	DESIGN	BACT
DEARSENITER PURGE HTR		NOX	1.8000 LB/H	DESIGN	BACT
DEARSENITER CHARGE HTR		NOX	2.3000 LB/H	DESIGN	BACT
FRACT CHG HTR		NOX	2.5000 LB/H	DESIGN	BACT
REFORMER FURN		NOX	53.1000 LB/H	DESIGN	BACT
STEAM BOILER		NOX	12.0000 LB/H	DESIGN	BACT
SULFUR REC.UNIT	12.00 T/D	SO2	300.0000 PPM		99.90
			1.9000 LB/H		BACT
			CLAUS & TAILGAS		99.90

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 5.14

ID NUMBER CO-0014

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 106000.00 BPSD

COMPANY NAME/SITE LOCATION WHITE RIVER SHALE OIL CORP.

BONANZA, UT

UTINTAH COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. MAJ 053082-IT

DETERMINATION MADE BY UTAH BAC

(AGENCY)

CARL BROADHEAD

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/04/82

ESTIMATED DATE OF START-UP-- 1988

(801)-533-6108

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
IN-MINE PRIMARY CRUSHING	89000.00 TPSD	PH	MET SUPPRESSION	80.00
CRUSHING & SCREENS	176000.00 TPSD	PH	0.0200 GR/DSCF BAGHOUSE	99.70
MINE CONVEYOR SURGE BIN	176000.00 TPSD	PH	0.0130 GR/DSCF BAGHOUSE	99.70
MINE CONVEYOR TRANSFER POINTS	176000.00 TPSD	PH	0.0130 GR/DSCF BAGHOUSE	99.70
FEED TO STORAGE SILOS	176000.00 TPSD	PH	0.0130 GR/DSCF BAGHOUSE	99.70
SURFACE CRUSHING & SCREENS	176000.00 TPSD	PH	0.0130 GR/DSCF BAGHOUSE	99.70
FINES CONVEYOR, POINTS TRANSFER	900.00 TPSD	VE	20.0000 % OPACITY	80.00
CONVEYORS		PH	MET SUPPRESSION FULLY COVERED	90.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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REVIEW STATUS: 04/01/1983

ID NUMBER UT-0025

SOURCE TYPE CODE 5.14

(CONTINUED) WHITE RIVER SHALE OIL CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
UNION RETORT SILO FEED	46400.00 TPSD	PM	0.0130 GR/DSCF BAGHOUSE	99.70
SUPERIOR RETORT SILO FEED	112000.00 TPSD	PM	0.0130 GR/DSCF BAGHOUSE	99.70
TOSCO RETORT SILO FEED	18500.00 TPSD	PM	0.0130 GR/DSCF BAGHOUSE	99.70
UNION PROCESSED CONVEYOR SHALE	39550.00 TPSD	VE	20.0000 % OPACITY FULLY COVERED CONVEYORS 20% MOISTURE	99.00
SUPERIOR PROCESSED CONVEYOR SHALE	84000.00 TPSD	VE	20.0000 % OPACITY FULLY COVERED CONVEYORS 20% MOISTURE	99.00
MAIN ACCESS ROADS		PM	PAVING	95.00
2ND LIGHT DUTY ROADS		PM	MINIMIZE CHEMICAL SUPPRESSION	75.00
TOSCO PROCESSED CONVEYOR SHALE	15000.00 TPSD	PM	MINIMIZE 20% MOISTURE COVERED CONVEYORS	99.00
PROCESSED SHALE CONVEYOR TRANSF*	149500.00 TPSD	VE	20.0000 % OPACITY 15 % MOISTURE ENCLOSED	99.00
PROCESSED SHALE DISPOSAL	149500.00 TPSD	PM	MINIMIZE CHEM. DUST SUPPRES. COMPACT., REVEG.	85.00
LOAD IN	149500.00 TPSD	VE	20.0000 % MINIMIZE 15% WATER	80.00
GROOMING	112.00 SCRAPER H/D	VE	20.0000 % OPACITY WATERING	50.00
WIND EROSION	30.00 ACRE	PM	MINIMIZE COMPACT. REVEG. & CHEM. DUST SUPPRES.	85.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

ID NUMBER UT-0025

SOURCE TYPE CODE 5.14

(CONTINUED) WHITE RIVER SHALE OIL CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LOAD IN, RAW SHALE STOCKPILE	5000.00 TPSD			
LIVE STORAGE WIND EROSION, RAW *	175000.00 T	PM	MINIMIZE LOWERING WELL	75.00
GROOMING, RAW SHALE STOCKPILE	5000.00 TPSD	PM	MINIMIZE WATER SPRAYS	50.00
DEAD STORAGE WIND EROSION, RAW *	2.80 MMT	PM	MINIMIZE WATER SPRAYS	50.00
PHASE III-UNION B RECYCLE GAS H*	960.00 MMBTU/H	PM	MINIMIZE CHEMICAL SEALING & COMPACTION	
		PH	0.0210 LB/MMBTU	
		SO2	5.0000 LB/H STACK	
			0.0230 LB/MMBTU	
			5.5000 LB/H STACK	
		NOX	TREATED GAS & UPGRADED SHALE OIL	
			0.0220 LB/MMBTU	
			53.1000 LB/H STACK	
			LOW NOX BURNERS	
PHASE III - HYDRO TREATER REACT*	150.00 MMBTU/H	PM	0.0200 LB/MMBTU	
		SO2	2.6000 LB/H STACK	
			0.1600 LB/MMBTU	
			10.0000 LB/H STACK	
		NOX	CLEANED & TREATED HIGH BTU FUEL GAS	
			0.2600 LB/MMBTU	
			39.0000 LB/H STACK	
TOSCO PREHEAT & BALL HEATERS	479.00 MMBTU/H	PM	0.0240 GR/DSCF	99.50
			22.5000 LB/H STACK	
		SO2	VENTURI SCRUBBER	
			0.0020 GR/DSCF	
			0.5000 LB/H STACK	
		NOX	TREATED FUELS	50.00
			0.2200 GR/DSCF	
			51.9000 LB/H STACK	
			LOW-NOX BURNERS	
BOILER & POWER PLANTS (3 STK)	2438.00 MMBTU/H			

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER UT-0025

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 5.14

(CONTINUED) WHITE RIVER SHALE OIL CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
H2 PLANT REFORMER FURNACE	2050.00 MMBTU/H	PM	0.0300 LB/MMBTU	80.00
			73.2000 LB/H	
		SO2	0.0700 LB/MMBTU	
			166.9000 LB/H	
			FSD	
			CLEANED & TREATED FUEL GAS, UPGRADED SHALE OIL	
		NOX	0.2000 LB/MMBTU	
			487.5000 LB/H	
		PM	0.2000 LB/MMBTU	
			25.8000 LB/H	
		SO2	0.0070 LB/MMBTU	
			9.0000 LB/H	
			CLEANED, TREATED & UPGRADED FUELS	
		NOX	0.2100 LB/MMBTU	
			267.8000 LB/H	
			LOW-NOX BURNERS	
NAPHTHA & CRUDE STORAGE TANKS		VOC		25.00
GAS TREATMENT PLANT, 3 UNITS	20.00 MMBTU		FLOATING ROOF TANKS W/DB' SEALS	
		SO2	250.0000 PPMV AT 0% O2	
		PM		
		NOX	TREATED HIGH BTU FUEL GAS	
FUEL GAS TREATED HIGH BTU		H2S	0.1000 GR/DSCF	
		T.S*	0.4900 GR/DSCF	
		NH3	10.0000 PPMV	
		S	75.0000 PPMV	
FUEL GAS TREATED LOW BTU		NH3	10.0000 PPMV	

NOTES

THE FEASIBILITY APPROVAL ORDER IS BASED ON BACT AS OF 1982. THIS IS A PHASE CONSTRUCTION PROJECT. EACH UNIT OF EACH PHASE WILL BE PERMITTED BASED ON THE "THEN CURRENT" BACT. TPOD = TON PER STREAM DAY
DIESEL FUEL SULFUR LIMIT - 0.20% BY WT. FUEL OIL - S = 20 PPMV, NH3 = 1500 PPMV.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

ID NUMBER UT-0025

SOURCE TYPE CODE 5.14

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OIL AND GAS FIELD SERVICE 100000.00 LB/D

COMPANY NAME/SITE LOCATION DRILGMO CO.

, TX

FORT BEND COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. X-3973

DETERMINATION MADE BY TEXAS ACB (AGENCY)

ROBERT MAUEL (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/22/81
ESTIMATED DATE OF START-UP-- 1982
(512)-451-5711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY EMISSION LIMITS POLLUTANT EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

SILLO & LOADING 100000.00 LB/D

BAR# 0.1000 LB/H

SHOP MADE FABRIC FILTER

99.10

VENT HOUSE TRAFFIC

PM 0.9000 LB/H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 05/04/1984

PAGE G- 509

ID NUMBER TX-0116

SOURCE TYPE CODE 5.15

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OIL AND GAS FIELD SERVICE 3000.00 BBL/D

COMPANY NAME/SITE LOCATION NORTH BELTRIDGE DEHY FACILITY , CA KERN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. 4012304A
 DETERMINATION MADE BY KERN COUNTY APCD
 (AGENCY) TOM PAXSON
 (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 05/25/84
 ESTIMATED DATE OF START-UP-- (605)-861-3682
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY 3000.00 BBL/D
 DEHYDRATION & LOADING, CRUDE OIL VOC 177.2000 LB/D SEE NOTE
 VAPOR CONTROL SYSTEM BACT 99.00

NOTES
 NOTE - INCLUDING 111.9 LB/D OF FUGITIVE HYDROCARBONS. THIS OPERATION RUNS 24 H/D, 365 D/YR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 ID NUMBER CA-0078
 REVIEW STATUS:
 INITIAL REVIEW POST STARTUP
 SOURCE TYPE CODE 5.15
 PAGE G- 590

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OIL AND GAS FIELD SERVICE

COMPANY NAME/SITE LOCATION SHELL CALIFORNIA PRODUCTION, INC.

CA

KERN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 4012304B
DETERMINATION MADE BY KERN COUNTY APCD
(AGENCY)

TOM PAXSON
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/05/84
ESTIMATED DATE OF START-UP--
(805)-851-3682
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY 3000.00 BBL/D

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

CRUDE OIL STORAGE & DEHYDRATION

VOC 175.3000 LB/D
VAPOR CONTROL SYS

99.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

PAGE 6- 591

ID NUMBER CA-0076A

SOURCE TYPE CODE 5.15

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE
OIL AND GAS FIELD SERVICE
306.00 MMGAL/YR

COMPANY NAME/SITE LOCATION SIGHOR PIPELINE CO.

SAN ANTONIO, TX

BEXAR COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 6348

DETERMINATION MADE BY TEXAS ACB
(AGENCY)

SAM CROKTHUR
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/27/78
ESTIMATED DATE OF START-UP-- 1979
(512)-451-5711
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

GASOLINE LOADING 3 RACKS (12 SP* 306.00 MMGAL/YR

VOC

23.6000 T/YR
0.1250 LB/MGAL VOC
CARBON ADSORPTION

AP42

DIESEL/KERO LOADING

153.00 MMGAL/YR

VOC

14.1000 T/YR
BOTTOM LOADING (SEE NOTE)

97.50

STORAGE TANKS (7)

217.00 MGAL

VOC

25.0000 T/YR
JMT. FLOAT COVERS, WHITE TANKS

AP42
0.00

FUGITIVE VOC

VOC 12.0000 T/YR
NONE

AP42
97.00

NOTES -----

CARBON ADSORPTION UNIT PURCHASE PRICE = \$240,000 NOTE - BOTTOM LOADING IS CONSIDERED UNCONTROLLED, FUGITIVE VOC ESTIMATED ONLY

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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REVIEW STATUS: 04/01/1983

INITIAL REVIEW POST STARTUP

ID NUMBER TX-0068

SOURCE TYPE CODE 5.15

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OIL AND GAS FIELD SERVICE 200.00 UNITS/YR
 COMPANY NAME/SITE LOCATION SOUTHWESTERN BARGE FLEET SERVICE, INC. HIGHLANDS, TX HARRIS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. 9442 DATE OF PERMIT ISSUANCE-- 01/10/85
 DETERMINATION MADE BY TEXAS ACB ESTIMATED DATE OF START-UP-- 1985
 (AGENCY) (512)-451-5711
 LOUIS ROBERTS (PHONE)
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT THROUGHPUT POLLUTANT EMISSION LIMITS ... & BASIS
 TO THIS PERMIT CAPACITY EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
 BARGE CLEANING 200.00 UNITS/YR VOC 7.0000 T/YR CARBON ADSORPTION UNIT BACT
 85.00

NOTES
 LIST OF PERMISSABLE CONTENTS ATTACHED TO PERMIT. OTHER CLEANING WILL REQUIRE SEPERATE PERMIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 PAGE 6- 593
 REVIEW STATUS: INITIAL REVIEW POST STARTUP
 ID NUMBER TX-0164
 SOURCE TYPE CODE 5.15

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OIL AND GAS FIELD SERVICE 2000.00 HP EA,NAT. GAS, 3

COMPANY NAME/SITE LOCATION UNITED GAS PIPE LINE CO. CARTHAGE, TX PANOLA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. X1460 TEXAS ACB
 DETERMINATION MADE BY (AGENCY) JIM CARAWAY
 (AGENCY CONTACT PERSON) (512)-451-5711
 (PHONE) DATE OF PERMIT ISSUANCE-- 05/07/80
 ESTIMATED DATE OF START-UP-- 1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SUPERIOR COMPRESSOR ENGINE	2000.00 HP	NOX	4.2000 G/BHP-H TURBOCHARGED	

NOTES
 SUPERIOR TURBOCHARGED "CLEAN BURN" 2000 HP ENGINE, MODEL 12 SGT-A, SN 261319. ENGINE SAMPLED BY EPA --APPROVED METHOD 20 ON 3-2 5-82. NOX EMISS. BASED ON TEST RESULTS WERE .782 G/BHP-HR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 ID NUMBER TX-0084
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 SOURCE TYPE CODE 5.15

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION BEAR CREEK STORAGE

BIENVILLE, LA

BIENVILLE PARISH

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. PSD-LA-85

DETERMINATION MADE BY EPA REGION VI

(AGENCY)

TOM DIGGS

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/22/79

ESTIMATED DATE OF START-UP--

(214)-767-1594

(PHONE)

PROCESSES SUBJECT

TO THIS PERMIT

I.C. COMPRESSOR, 4

THROUGHPUT

CAPACITY

7000.00 HP EA

POLLUTANT

EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS

... PCT EFF

NOX

11.7000 G/HP-H

AIR/FUEL RATIO

1.4000 G/HP-H

AIR/FUEL RATIO

NOX

2.1000 LB/H

AIR/FUEL RATIO

NOX

0.4000 LB/H

AIR/FUEL RATIO

GAS HEATERS, 3

REGENERATOR HEATERS, 3

BACT

BACT

BACT

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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REVIEW STATUS: 04/01/1983

INITIAL REVIEW POST STARTUP

ID NUMBER LA-0023

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION CHEVRON USA, INC.

, CA

KERN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 40084078

DETERMINATION MADE BY

KERN COUNTY APCD

(AGENCY)

TOM PAXSON

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/21/84

ESTIMATED DATE OF START-UP--

(605)-861-3682

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

ROOF TANKS

2000.00 EBL/D

VOC

15.1000 LB/D

VAPOR RECOVERY

99.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

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ID NUMBER CA-0087

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER 525600.00 MMGAL/YR

COMPANY NAME/SITE LOCATION CHEVRON USA, INC. , UT DAVIS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. DATE OF PERMIT ISSUANCE-- 07/08/82
 DETERMINATION MADE BY UTAH BAG ESTIMATED DATE OF START-UP-- 1933
 (AGENCY) (801)-533-6108
 (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... BASIS ... PCT EFF
SEPARATOR	525.60 MMGAL/YR	VOC		
			STEEL COVER-TOTAL	95.00

NOTES
 AIR TIGHT STEEL COVER PLATES OVER THE ENTIRE SEPARATOR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983 02/13/1984
 ID NUMBER UT-0028 SOURCE TYPE CODE 5.16
 PAGE 6- 597

05/21/1985

COMPANY NAME/SITE LOCATION COLORADO INTERSTATE GAS
P.O. BOX 1087

COLORADO SPRINGS, OK 80944

DETERMINATION IS BACK FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-OK-358
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

DATE OF PERMIT ISSUANCE-- 02/26/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

JOE WINKLER
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

COMPRESSOR ENGINE

THROUGHPUT
CAPACITY

2700.00 HP

[illegible]

... & BASIS
... PCT EFF
CONTROL EQUIPMENT OR PROCESS MODIFICATION

NOX	0.0010	G/HP-H TURBOCHARGED CLEAN BURN	BACT
CO	0.0010	G/HP-H EFFICIENT COMBUSTION	BACT
SO2	0.0010	G/HP-H EFFICIENT OPERATION	BACT
VOC	0.0010	G/HP-H EFFICIENT COMBUSTION	BACT
PM		EFFICIENT COMBUSTION	BACT

EMERGENCY GEN.

370.00 HP

NOX	10.9000	G/HP-H	NORMAL	OPERATION	BACT
CO	1.4000	G/HP-H	NORMAL	OPERATION	BACT
SO2	0.0010	G/HP-H	NORMAL	OPERATION	BACT
VOC	0.8400	G/HP-H	NORMAL	OPERATION	BACT
PH			NORMAL	OPERATION	BACT
NOX	0.3200	LB/H	NORMAL	OPERATION	BACT

BOILER

2.60 MMBTU/H

NOX	0.3200 LB/H	NORMAL OPERATION	BACT
1	0.3200	0.3200	0.3200
2	0.3200	0.3200	0.3200
3	0.3200	0.3200	0.3200
4	0.3200	0.3200	0.3200
5	0.3200	0.3200	0.3200
6	0.3200	0.3200	0.3200
7	0.3200	0.3200	0.3200
8	0.3200	0.3200	0.3200
9	0.3200	0.3200	0.3200
10	0.3200	0.3200	0.3200
11	0.3200	0.3200	0.3200
12	0.3200	0.3200	0.3200
13	0.3200	0.3200	0.3200
14	0.3200	0.3200	0.3200
15	0.3200	0.3200	0.3200
16	0.3200	0.3200	0.3200
17	0.3200	0.3200	0.3200
18	0.3200	0.3200	0.3200
19	0.3200	0.3200	0.3200
20	0.3200	0.3200	0.3200
21	0.3200	0.3200	0.3200
22	0.3200	0.3200	0.3200
23	0.3200	0.3200	0.3200
24	0.3200	0.3200	0.3200
25	0.3200	0.3200	0.3200
26	0.3200	0.3200	0.3200
27	0.3200	0.3200	0.3200
28	0.3200	0.3200	0.3200
29	0.3200	0.3200	0.3200
30	0.3200	0.3200	0.3200
31	0.3200	0.3200	0.3200
32	0.3200	0.3200	0.3200
33	0.3200	0.3200	0.3200
34	0.3200	0.3200	0.3200
35	0.3200	0.3200	0.3200
36	0.3200	0.3200	0.3200
37	0.3200	0.3200	0.3200
38	0.3200	0.3200	0.3200
39	0.3200	0.3200	0.3200
40	0.3200	0.3200	0.3200
41	0.3200	0.3200	0.3200
42	0.3200	0.3200	0.3200
43	0.3200	0.3200	0.3200
44	0.3200	0.3200	0.3200
45	0.3200	0.3200	0.3200
46	0.3200	0.3200	0.3200
47	0.3200	0.3200	0.3200
48	0.3200	0.3200	0.3200
49	0.3200	0.3200	0.3200
50	0.3200	0.3200	0.3200
51	0.3200	0.3200	0.3200
52	0.3200	0.3200	0.3200
53	0.3200	0.3200	0.3200
54	0.3200	0.3200	0.3200
55	0.3200	0.3200	0.3200
56	0.3200	0.3200	0.3200
57	0.3200	0.3200	0.3200
58	0.3200	0.3200	0.3200
59	0.3200	0.3200	0.3200
60	0.3200	0.3200	0.3200
61	0.3200	0.3200	0.3200
62	0.3200	0.3200	0.3200
63	0.3200	0.3200	0.3200
64	0.3200	0.3200	0.3200
65	0.3200	0.3200	0.3200
66	0.3200	0.3200	0.3200
67	0.3200	0.3200	0.3200
68	0.3200	0.3200	0.3200
69	0.3200	0.3200	0.3200
70	0.3200	0.3200	0.3200
71	0.3200	0.3200	0.3200
72	0.3200	0.3200	0.3200
73	0.3200	0.3200	0.3200
74	0.3200	0.3200	0.3200
75	0.3200	0.3200	0.3200
76	0.3200	0.3200	0.3200
77	0.3200	0.3200	0.3200
78	0.3200	0.3200	0.3200
79	0.3200	0.3200	0.3200
80	0.3		

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER OK-0006

SOURCE	TYPE	CODE	5.16
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

(CONTINUED) COLORADO INTERSTATE GAS

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
		CO	0.0500 LB/H NORMAL OPERATION	BACT
		SO2	0.0020 LB/H NORMAL OPERATION	BACT
		VOC	NORMAL OPERATION	BACT
		PM	0.0130 LB/H NORMAL OPERATION	BACT

NOTES -----
OPERATED ONLY DURING POWER OUTAGES. BOILER OPERATED ONLY DURING COLD WEATHER.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER OK-0006

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION HOUSTON PIPE LINE CO.
HOUSTON NAT. GAS BLDG 14TH FL.

HOUSTON, TX 77001

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. TX-313
DETERMINATION MADE BY

EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/30/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

I.C. ENGINES, 4 TURBO.

2400.00 HP EA

NOX 60.8000 LB/H
13.5000 G/HP-H

BACT

DEHYDRATORS, 2

1.25 MMBTU/H EA

AIR/FUEL RATIO CONTROL

NOX 0.1500 LB/H
0.1200 LB/MMBTU

BACT

COMBUST. CONTRL, EFF. DESIGN

NOTES

EACH OF THE I.C. ENGINES WERE LIMITED TO 0.65 G/HP-H FOR CO, HOWEVER, POLLUTANT WAS NOT REVIEWED UNDER PSD.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER TX-0076

SOURCE TYPE CODE 5.16

APPENDIX --- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION NECHES BUTANE PRODUCTS CO.

PORT NECHES, TX

JEFFERSON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 9504

DETERMINATION MADE BY

TEXAS ACB
(AGENCY)

AMEA MANN
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/14/85
ESTIMATED DATE OF START-UP-- 1985
(512)-451-5711
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

MEROX UNIT

350000.00 LB/H BUTANE*

SO2

9.1000 LB/H

HEROX CAUSTIC SCRUBBING

BACT
95.00

NOTES

EFFICIENCY BASED ON 400.0 PPM, BY WT, SULFUR IN INLET

(*) INDICATES DATUM HAS TRUNCATED FOR THIS TABLE.

PAGE 6- 601

REVIEW STATUS: INITIAL REVIEW POST STARTUP

ID NUMBER TX-0165

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION OASIS PIPELINE CO.
1200 TRAVIS, BOX 1188
HOUSTON, TX 77001

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. EPA REGION VI
DETERMINATION MADE BY (AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/06/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT
COMPRESSOR ENGINE

THROUGHPUT
CAPACITY
1350.00 HP EA

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

NOX

6.8600 G/HP-H

LCA EX. AIR

-- AIR/FUEL RATIO

BACT

VOC

0.7000 G/HP-H

EFFICIENT COMBUSTION

BACT

CO

1.4000 G/HP-H

EFFICIENT COMBUSTION

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

PAGE 6- 602

ID NUMBER TX-0038

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION ODESSA NATURAL CORP.

CISCO, TX

EASTLAND COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-368
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

BILL TAYLOR
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/02/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

TURBINE

THROUGHPUT
CAPACITY

7660.00 HP

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

NOX

1.3000 G/HP-H

AIR/FUEL RATIO

BACT

CO

0.5000 G/HP-H

AIR/FUEL RATIO

BACT

NOX

6.5000 G/HP-H

AIR/FUEL RATIO

BACT

CO

2.2000 G/HP-H

AIR/FUEL RATIO

BACT

I. C. ENGINES, 2 EA

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 603

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER TX-0028

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION PANHANDLE EAST. PIPELINE

ALVA, OK

WOODS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-OK-330
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

BILL TAYLOR
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/29/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
----------------------------------	---------------------	-------------------	---	-------------------------

I.C. ENGINE, 3 EA

4500.00 HP

NOX

6.0000 G/HP-H

AIR/FUEL RATIO

BACT

CO

4.8000 G/HP-H

AIR/FUEL RATIO

BACT

I.C. ENGINE

631.00 HP

NOX

11.5000 G/HP-H

AIR/FUEL RATIO

BACT

CO

5.5000 G/HP-H

AIR/FUEL RATIO

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE G- 604

ID NUMBER OK-0006

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION PANKHOLE EAST. PIPELINE CASHION, OK KINGSFISHER COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. (REGION FILE NO.) PSD-OK-329
 DETERMINATION MADE BY EPA REGION VI
 (AGENCY)
 JOHN BUNYAK
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 05/08/81
 ESTIMATED DATE OF START-UP--
 (214)-767-1594
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY 4500.00 HP
 I. C. ENGINE, 2 EA
 POLLUTANT EMISSION LIMITS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
 ... PCT EFF

NOX 9.0000 G/HP-H BACT
 CO 9.0000 G/HP-H BACT
 AIR/FUEL RATIO
 AIR/FUEL RATIO

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION PANHANDLE EAST. PIPELINE

, TX 64141

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-321
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

DATE OF PERMIT ISSUANCE-- 02/11/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT
COMPRESSOR ENGINE

THROUGHPUT
CAPACITY
771.00 HP

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

NOX	11.5000 G/HP-H		BACT
VOC	1.7000 LB/H		BACT
CO	5.7000 G/HP-H	EFFICIENT COMBUSTION	BACT
NH3	0.0090 LB/H	EFFICIENT COMBUSTION	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
PAGE 6- 606

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
SOURCE TYPE CODE 5.16

ID NUMBER TX-0042

APPENDIX -- DETAILED SOURCE LISTING

05/21/1989

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION PANHANDLE EAST. PIPELINE
6 KM SW GARNER OIL FD.

, TX 64141

CARSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-320
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

DATE OF PERMIT ISSUANCE-- 02/11/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... A BASIS ... PCT EFF
COMPRESSOR ENGINE	771.00 HP EA	NOX	11.5000 G/HP-H	BACT
		VOC	13.5600 LB/H	BACT
		CO	5.7000 G/HP-H	BACT
		NH3	0.6800 LB/H	BACT

NOTES -----
AIR/FUEL RATIO WITH A RESULTANT 2% FUEL SACRIFICE

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
SOURCE TYPE CODE 5.16
ID NUMBER TX-0044
PAGE G- 607

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION PANHANDLE EAST. PIPELINE

AMARILLO, TX

CARSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. PSD-TX-322
DETERMINATION MADE BY

EPA REGION VI
(AGENCY)

TON DIGGS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/11/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

I.C. ENGINES, 3

THROUGHPUT
CAPACITY

771.00 BRAKE HP EA

POLLUTANT
EMITTED

NOX

11.5000 G/HP-H

CO

5.7000 G/HP-H

AIR/FUEL RATIO

AIR/FUEL RATIO

BACT

BACT

... & BASIS
... PCT EFF

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 0- 608

ID NUMBER TX-0043

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION PETRO-LEWIS CORP.

, CA

DETERMINATION IS LAER FOR A NEW SOURCE.

PERMIT NO. 4052033-037

DETERMINATION MADE BY

KERN COUNTY APCD

(AGENCY)

TOM PAXSON

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/23/84

ESTIMATED DATE OF START-UP--

(805)-861-3682

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

GENERATOR, STEAM, 5 EA

THROUGHPUT
CAPACITY

62.50 MMBTU/H

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

PM 0.0340 LB/MMBTU

50.6600 LB/D

NET SCRUBBER

SOX 0.0230 LB/MMBTU

34.0100 LB/D

VENTURI SCRUBBER

NOX 0.1200 LB/MMBTU

161.3000 LB/D

STAGED COMBUSTION

61.00

30.00

70.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 609

REVIEW STATUS: INITIAL REVIEW POST STARTUP

ID NUMBER CA-0050

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

PETROLEUM INDUSTRY -- OTHER

SOURCE TYPE/SIZE

COMPANY NAME/SITE LOCATION REFINERY WASTE GAS RECOVERY

, CA

KERN COUNTY

DETERMINATION IS
PERMIT NO. SEE NOTE
DETERMINATION MADE BY

KERN COUNTY APCD
(AGENCY)

TON PAXSON
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/19/84
ESTIMATED DATE OF START-UP--
(805)-861-3682
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

VAPOR COMPRESSOR, VALVES, & FLAM 720000.00 SCF/D

VOC

28.9000 LB/D

I & M TO MINIMIZE FUG. EMISS.

65.00

NOTES

NOTE -- PERMITS NUMBERS 2018008A, 2018012B, 2018046A, 2018062. SOURCE WILL OPERATE 24 H/D, 7 D/WEEK, 52 WEEK/YR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS:

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ID NUMBER CA-3065

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER 8200.00 BBL/D
 COMPANY NAME/SITE LOCATION SHELL OIL CO. MS 70161 PIKE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. MS 025 DATE OF PERMIT ISSUANCE-- 09/17/80
 DETERMINATION MADE BY MISSISSIPPI DNR ESTIMATED DATE OF START-UP--
 (AGENCY) (601)-354-2550
 (PHONE)
 DWIGHT WILEY
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY EMISSION LIMITS
 NOX 8200.00 BBL/D CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
 BACT

BEST OPERATING PRACTICE

NOTES -----
 8 COMPRESSOR UNITS -- 2 AT 102.5 HP, 3 AT 205 HP, 2 AT 1460 HP, AND 1 AT 1100 HP (STANDBY). ONE EMERGENCY UNIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER MS-0002 SOURCE TYPE CODE 5.16
 PAGE 6- 611

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION SOUTHERN NAT. GAS
BIENVILLE

BIENVILLE, LA

BIENVILLE PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-406
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

DATE OF PERMIT ISSUANCE-- 09/11/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

BILL TAYLOR
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT
I.C. ENGINES, 2 EA

THROUGHPUT
CAPACITY
448.00 BRAKE HP

POLLUTANT
EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

NOX

11.0000 G/HP-H

AIR/FUEL RATIO

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

PAGE G- 612

ID NUMBER LA-0009

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION SOUTHERN NAT. GAS

FRANKLINTON, LA

WASHINGTON PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. (REGION FILE NO.) PSD-LA-267

DETERMINATION MADE BY EPA REGION VI (AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/17/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

I.C. ENGINE

THROUGHPUT
CAPACITY

5000.00 HP

POLLUTANT
EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

NOX
CO

182.0000 LB/H
4.0000 LB/H

AIR/FUEL RATIO

BACT
BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 613

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER LA-0021

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION SUN GAS CO.
THREE NORTH PARK EAST ST.

DALLAS, TX

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-R72
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN EUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/26/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMPRESSOR ENGINE, 2	1200.00 HP	NOX	9.1000 G/HP-H AIR/FUEL RATIO, IGNITION RETARD	BACT
		CO	1.2000 G/HP-H AIR/FUEL RATIO, IGNITION RETARD	BACT
COMPRESSOR	600.00 HP	NOX	9.1000 G/HP-H AIR/FUEL RATIO, IGNITION RETARD	BACT
		CO	1.2000 G/HP-H AIR/FUEL RATIO, IGNITION RETARD	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION TEXACO, INC.

EAST COTE BLANCHE BAY, LA

IBERIN PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. (REGION FILE NO.) PSD-LA-382

DETERMINATION MADE BY EPA REGION VI

(AGENCY)

JOHN BENHAM

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/30/81

ESTIMATED DATE OF START-UP--

(214)-767-1594

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

I.C. ENGINE 2

1560.00 BRAKE HP

NOX

10.0000 G/HP-H

AIR/FUEL RATIO

BACT

I.C. ENGINE 1

40.00 BRAKE HP

CO

10.0000 G/HP-H

AIR/FUEL RATIO

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1993

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ID NUMBER LA-0012

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION YEXACO, INC.
P.O. BOX 60252
NEW ORLEANS, LA 70160

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-381
DETERMINATION MADE BY EPA REGION VI
(AGENCY)
JOHN BUNYAK
(AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/27/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIC ... PCT EFF
I.C. COMPRESSOR ENGINE, TURBOCH*	1650.00 HP	NOX	6.5000 G/HP-H AIR/FUEL RATIO	BACT
		CO	1.3000 G/HP-H NORMAL OPERATION	BACT
GEN. DRIVER, 2 EA	360.00 HP	NOX	10.0000 G/HP-H NORMAL OPERATION	BACT
		CO	10.0000 G/HP-H NORMAL OPERATION	BACT

NOTES -----
ONE GENERATOR DRIVER IS A STANDARD UNIT. NATURAL GAS USED AS FUEL.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
SOURCE TYPE CODE 5.16

ID NUMBER LA-0013

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE

PETROLEUM INDUSTRY -- OTHER

6300.00 HP

COMPANY NAME/SITE LOCATION

TEXACO, INC.

NEW ORLEANS, LA

1501 CANAL ST., P.O. BOX 60252

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. (REGION FILE NO.) PSD-LA-301

DETERMINATION MADE BY EPA REGION VI

(AGENCY)

DATE OF PERMIT ISSUANCE-- 08/29/80

ESTIMATED DATE OF START-UP--

(214)-767-1594

(PHONE)

JOHN BUNYAK

(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

EMISSION LIMITS

... & BASIS ... PCT EFF

ENGINE, I.C., TURBOCHARGED

2650.00 HP

NOX

43.7000 LB/H

7.5000 G/HP-H

BACT

TURBINE COMPRESSOR, GAS-FIRED

3300.00 HP

NOX

9.4000 LB/H

1.3000 G/HP-H

NSPS

I.C. ENGINE, NAT. ASPIRATED

350.00 HP

NOX

7.7000 LB/H

10.0000 G/HP-H

BACT

AIR/FUEL RATIO CONTROL

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

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ID NUMBER LA-0033

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1995

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION TEXACO, INC.
1501 CANAL ST NEW ORLEANS, LA 70160

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-300
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CON,ACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/29/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I. C. ENGINE, TURBOCHARGED	2650.00 HP	NOX	7.5000 G/HP-H 43.7000 LB/H CON IGN TIM/RETARD ENGINE SPARK	BACT
I. C. ENGINE, TURBOCHARGED	2650.00 HP	NOX	7.5000 G/HP-H 43.7000 LB/H CON IGN TIM/RETARD ENGINE SPARK	BACT
TURBINE, GAS FIRED, COMPRESSION	3500.00 HP	NOX	1.8000 G/HP-H 14.2000 LB/H NONE	BACT
I. C. ENGINE, NAT. ASPIRATED	500.00 HP	NOX	10.0000 G/HP-H 11.0000 LB/H AIR/FUEL RATIO CONTROL	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION TRUNKLINE LNG CO.

LAKE CHARLES, LA

CALCASIEU PARISH

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. PSD-LA-97.H-1

DETERMINATION MADE BY

LAQD/EPA REGION VI
(AGENCY)

BHARAT CONTRACTOR
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/25/83
ESTIMATED DATE OF START-UP--
(504)-342-8940
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

TURBINE, GAS, 2

THROUGHPUT
CAPACITY

105.00 MMBTU/H

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

NOX

79.0000 LB/H

COMB. CONTRL, O2 & CO MONITOR

N/A

VAPORIZER, LNG, 7 EA

72.54 MMBTU/H

NOX

3.8600 LB/H

COMBUSTION CONTROL

N/A

HEATER, FUEL GAS, 2 EA

3.50 MMBTU/H

NOX

0.6300 LB/H

N/A

NOTES

THE ORIGINAL PERMIT, PSD-LA-97, WAS ISSUED ON 02/09/79 BASED ON 75. PPH NOX EMISSION LIMITS UNDER NSPS. HOWEVER, THE NSPS AMME
NED ON 01/27/82, SPECIFICALLY EXEMPTED THESE TURBINES FROM H2O INJECTION CONTROLS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

PAGE G- 619

ID NUMBER LA-0047

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE

PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION UNITED GAS PIPE LINE CO.
P.O. BOX 1478

HOUSTON, LA 77001

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-230
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

DATE OF PERMIT ISSUANCE-- 03/04/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

JOHN BURYAK
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

COMPRESSOR ENGINE, 3 EA

3500.00 HP

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

NOX

107.9000 LB/H EA
30.6000 LB/THP-H

BACT

CCN. AIR/FUEL RATIO, IGN. TIM.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER LA-0039

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION UNITED PIPE LINE CO.
P.O. BOX 1478

HOUSTON, TX 77001

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. TX-211

DETERMINATION MADE BY

EPA REGION VI

(AGENCY)

JOHN BUNYAK

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/04/80

ESTIMATED DATE OF START-UP--

(214)-767-1594

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

COMPRESSOR ENGINE, 3

THROUGHPUT
CAPACITY

1000.00 HP EA

POLLUTANT
EMITTED

NOX

31.5000 LB/H

31.5000 LB/MHP-H

CNTRL AIR/FUEL RATIO, IGN TIM.

BACT

... & BASIS
... PCT EFF

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER TX-0070

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1993

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ACRYLONITRILE PLANT

COMPANY NAME/SITE LOCATION DOW CHEMICAL U.S.A.

CODY, WY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. CT-511

DETERMINATION MADE BY

WYOMING AOD
(AGENCY)

DAN FAUTH
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/06/83
ESTIMATED DATE OF START-UP-- 1983
(307)-332-3144
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

AERATION, RAIL TANK CAR

NOTE #1

ACR# 2.9000 UG/CU METER, NOTE #2

CARBON FILLED CANISTERS

ACR# 0.9000 UG/CU METER, NOTE #2

CARBON FILLED CANISTERS

BACT 99.00
BACT 99.00
BACT 99.00

NOTES

NOTE #1 -- DOW AGREED TO REDUCE NUMBER OF CARS AERATING AT ANYONE TIME FROM 12 TO 6, NOTE #2 -- MODELED WORST CASE.

(*) INDICATES DATUM HAS TRUNCATED FOR THIS TABLE.

PAGE G- 522

REVIEW STATUS: INITIAL REVIEW POST STARTUP

ID NUMBER WY-0006

SOURCE TYPE CODE 6.1

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ACRYLONITRILE PLANT 200.00 HMLB/YR

COMPANY NAME/SITE LOCATION SCHIO CHEMICAL CO. VICTORIA, TX 77979 CALHOUN COUNTY
SEE NOTE #2

DETERMINATION IS PERMIT NO. C-9338 DATE OF PERMIT ISSUANCE-- 06/04/84
DETERMINATION MADE BY TEXAS ACB ESTIMATED DATE OF START-UP-- 1986
(AGENCY) (AGENCY CONTACT PERSON) (512)-451-5711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ACRYLONITRILE PRODUCTION	200.00 HMLB/YR	VOC	26,900 T/YR	B/N
		NOX	477,400 T/YR	99.80 BACT
		CO2	459,900 T/YR	BACT
			WASTE GAS INCINERATOR	

NOTES
SIC - 2869, SCC - 3-01-254-05 & 3-01-888-01, CONTROL DEVICE CODE - 21. NOTE 2 - P.O. BOX 659, PORT LAVACA, TX 77979

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
INITIAL REVIEW POST STARTUP
REVIEW STATUS: 10/31/1984
ID NUMBER TX-0153
SOURCE TYPE CODE 6.1

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ACRYLIC ACID PLANT

COMPANY NAME/SITE LOCATION BADISCHE CORP.

FREEPORT, TX

BRAZORIA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) P30-TX-284
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

TOM DIGGS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/05/81
ESTIMATED DATE OF START-UP-- 1980
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT
WASTE INCIN., 2 EA
THROUGHPUT CAPACITY
50.00 MMBTU/H

POLLUTANT EMISSION LIMITS
EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

POLLUTANT	EMISSION LIMITS EMITTED	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... PCT EFF
SO2	0.6600 LB/MMBTU	LCA S FUEL(OIL/GAS), & WASTE	BACT
NOX	0.7300 LB/MMBTU	FLUE GAS O2 CONTROL	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 6.3

ID NUMBER TX-0047

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ACRYLIC ACID PLANT

COMPANY NAME/SITE LOCATION BADISCHE CORP.

FREEPORT, TX 77541

DETERMINATION IS
PERMIT NO. C-9329
DETERMINATION MADE BY

TEXAS ACB
(AGENCY)

KAREN NEUMANN
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/31/84
ESTIMATED DATE OF START-UP-- 1984
(512)-451-5711
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

STORAGE, AMMONIA

THROUGHPUT
CAPACITY

30000.00 MET. T/YR

POLLUTANT
EMITTED

NH3

95.0000 PPM

99.00

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... BASIS
... PCT EFF

LOADING FACILITY

EXCESS REFRIG., BACK-UP GEN., EMER. FLARE SYS

NONE
INERT PURGER

NOTES

SIC 5161, SCC 3-01-880-01, 1-02-006-03

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 625

REVIEW STATUS:

INITIAL REVIEW POST STARTUP

ID NUMBER TX-0047A

SOURCE TYPE CODE 6.3

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ACROLEIN

COMPANY NAME/SITE LOCATION UNIROYAL CHEMICAL CO. GEISMAR, LA ASCENSION PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. PSD-LA-518
 DETERMINATION MADE BY LADD/EPA REGION VI
 (AGENCY) NAN KILLEEN
 (AGENCY CONTACT PERSON) (504)-342-8940
 (PHONE) DATE OF PERMIT ISSUANCE-- 02/26/85
 ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

NITROSATOR VENT NOX 42.1000 LB/H
 127.2000 T/YR BACT

NOTES
 AN EXPLOSION DESTROYED THE NOX SCRUBBER ON THIS SOURCE, WHICH HAS OPERATED SINCE 1974. AFTER EXTENSIVE RISK ANALYSES, UNABATED NOX VENTING WAS DETERMINED TO BE BACT. THIS PERMIT IS SUBJECT TO RE-EVALUATION AFTER 18 MONTHS.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. SOURCE TYPE CODE 6.5

ID NUMBER LA-0028A

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ALKYL BENZENE 150.00 MMBB/YR

COMPANY NAME/SITE LOCATION CONOCO, INC. WESTLAKE, LA

CALCASIEU PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-291
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

TOM DIGGS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/08/80
ESTIMATED DATE OF START-UP-- 1982
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY EMISSION LIMITS ... & BASIS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

PACOL HEATER, CHARGE 48.68 MMBTU/H NOX 0.0960 LB/MMBTU LOW NOX BURNERS > 20% EXCESS AIR BACT

HEATER, STARTUP 11.37 MMBTU/H CO 0.0180 LB/MMBTU FLUE GAS O2 MONITORING BACT

HEATER, HOT OIL 134.68 MMBTU/H NOX 0.0970 LB/MMBTU LOW NOX BURNERS > 20% EXCESS AIR BACT

FLARE CO 0.0260 LB/MMBTU FLUE GAS O2 MONITORING BACT

CO 0.0970 LB/MMBTU LOW NOX BURNERS > 20% EXCESS AIR BACT

CO 0.0210 LB/MMBTU FLUE GAS O2 MONITORING BACT

NOX 0.1200 LB/H BACT
CO 0.0200 LB/H BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

PAGE 6- 627 ID NUMBER LA-0020 SOURCE TYPE CODE 6.9

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE BUTADIENE
 COMPANY NAME/SITE LOCATION GOODYEAR TIRE & RUBBER CO.
 BEAUMONT, TX JEFFERSON COUNTY

DETERPHINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. 9500
 DETERMINATION MADE BY TEXAS ACB
 (AGENCY) LOUIS ROBERTS
 (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 01/10/85
 ESTIMATED DATE OF START-UP-- 1986
 (512)-451-5711
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY
 POLLUTANT EMISSION LIMITS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
 ... & BASIS
 HFG PROCESS VOC 723.0000 T/YR PRODUCTION STEAM STRIPPER
 BACT 90.00

NOTES -----
 COMPLIANCE DETERMINED BY START-UP TESTING & PERIODIC TESTING THEREAFTER.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 REVIEW STATUS: INITIAL REVIEW POST STARTUP
 ID NUMBER TX-0166
 SOURCE TYPE CODE 6.11
 PAGE G- 628

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE

CARBON BLACK

320.00 MMLB/YR

COMPANY NAME/SITE LOCATION ASHLAND CHEMICAL CO.

, LA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. LA-339
DETERMINATION MADE BY

EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/23/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

DRYER 1

50.50 MMBTU/H

SO2	38.3000 LB/H	EFFICIENT OPERATION	BACT
NOX	10.7000 LB/H	LOW EXCESS AIR	BACT
CO	36.9000 LB/H	EFFICIENT COMBUSTION	BACT
PM	6.2400 LB/H	EFFICIENT COMBUSTION	BACT
VOC	4.0000 LB/H	EFFICIENT COMBUSTION	BACT

DRYER 2

110.00 MMBTU/H

SO2	777.8000 LB/H	EFFICIENT OPERATION	BACT
NOX	9.6900 LB/H	LOW EXCESS AIR	BACT
CO	79.3000 LB/H	EFFICIENT COMBUSTION	BACT
PM	15.2800 LB/H	EFFICIENT COMBUSTION	BACT
VOC	9.1000 LB/H	EFFICIENT COMBUSTION	BACT

CO BOILER

125.40 MMBTU/H

SO2	977.3000 LB/H	EFFICIENT COMBUSTION	BACT
-----	---------------	----------------------	------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

PAGE G- 629

ID NUMBER LA-0025

SOURCE TYPE CODE 6.12

(CONTINUED) ASHLAND CHEMICAL CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
		NOX	24.4000 LB/H LOW EXCESS AIR	BACT
		CO	94.0000 LB/H EFFICIENT COMBUSTION	BACT
		PM	6.9000 LB/H EFFICIENT COMBUSTION	BACT
		VOC	19.3000 LB/H EFFICIENT COMBUSTION	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

ID NUMBER LA-0025

SOURCE TYPE CODE 6.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CARBON BLACK

COMPANY NAME/SITE LOCATION ASHLAND CHEMICAL CO.

TX

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. TX-336

DETERMINATION MADE BY EPA REGION VI

(AGENCY)

JOE WINKLER

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/02/81

ESTIMATED DATE OF START-UP--

(214)-767-1594

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... A BASIS ... PCT EFF

STACK DRYER 2

53.00 MBTU/H

PH

7.4000 LB/H

FABRIC SYS

BACT

SO2

373.9000 LB/H

PROPER OPERATION

BACT

NOX

20.0000 LB/H

LOW EXCESS AIR

BACT

VOC

1.4000 LB/H

EFFICIENT COMBUSTION

BACT

CO

42.5000 LB/H

EFFICIENT COMBUSTION

BACT

STACK DRYER 1

53.00 MBTU/H

PH

7.4000 LB/H

FABRIC SYS

BACT

SO2

373.9000 LB/H

PROPER OPERATION

BACT

NOX

20.0000 LB/H

LOW EXCESS AIR

BACT

VOC

1.4000 LB/H

EFFICIENT COMBUSTION

BACT

CO

42.5000 LB/H

EFFICIENT COMBUSTION

BACT

CO BOILER

81.00 MBTU/H

PH

10.0000 LB/H

FABRIC SYS

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

PAGE G- 631

ID NUMBER TX-0036

SOURCE TYPE CODE 6.12

(CONTINUED) ASHLAND CHEMICAL CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
		SO2	565.0000 LB/H NORMAL OPERATION	BACT
		NOX	28.0000 LB/H LOW EXCESS AIR	BACT
		VOC	3.0000 LB/H EFFICIENT OPERATION	BACT
		CO	62.0000 LB/H EFFICIENT OPERATION	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER TX-0036
 SOURCE TYPE CODE 6.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CARBON BLACK

COMPANY NAME/SITE LOCATION CONTINENTAL CARBON
5 MI SW OF SUNRAY

SUNRAY, TX

MOORE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. PSD-TX-345
DETERMINATION MADE BY

EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/03/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

REACTOR

DRYER

REACTOR

DRYER

FIREBOX

POLLUTANT EMISSION LIMITS
EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

2.10 T/H

S02

2.10 T/H

S02

2.00 T/H

S02

2.00 T/H

S02

24.00 MISTU/H

S02

BACT

BACT

BACT

BACT

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER TX-0035

SOURCE TYPE CODE 6.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CARBON BLACK
 COMPANY NAME/SITE LOCATION GREAT LAKES CARBON
 ALTUS, AR FRANKLIN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. PSD-AR-271A
 DETERMINATION MADE BY EPA REGION VI
 (AGENCY) TOM DIGGS
 (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY
 0.42 MT/STU/H
 POLLUTANT EMISSION LIMITS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
 ... PCT EFF

INCINERATION
 PM 0.0200 LB/H
 BACT 99.00
 BAGHOUSE
 EFFICIENT COMBUSTION

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER AR-0006
 SOURCE TYPE CODE 6.12
 PAGE G- 634

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CARBON BLACK

COMPANY NAME/SITE LOCATION PHILLIPS PETROLEUM CO.

BARTLESVILLE, OK

OSAGE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. PSD-OK-223
DETERMINATION MADE BY

EPA REGION VI
(AGENCY)

TOM DIGGS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/04/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

NAT. GAS FIRED COMPRESSOR

THROUGHPUT
CAPACITY

5.82 MMSTU/H

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

PM

0.4000 LB/H

CO

0.2000 LB/H

0.5% S FUEL OIL
PROPER OPERATION

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE G- 635

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER OK-0010

SOURCE TYPE CODE 6.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CHARCOAL
 COMPANY NAME/SITE LOCATION BIG SANDY WOOD IND.
 BIG SANDY, TX
 UPSHUR COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. C8891
 DETERMINATION MADE BY TEXAS ACS
 (AGENCY)
 JIMMY RANDALL
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 09/03/82
 ESTIMATED DATE OF START-UP-- 1983
 (512)-451-5711
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT
 WOOD-CHARRING PILES, 5
 THROUGHPUT CAPACITY 3.75 T/D
 POLLUTANT EMISSION LIMITS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
 ... PCT EFF
 PH 20.5000 T/YR
 NOX 4.4000 T/YR
 CO 178.0000 T/YR
 BACT
 BACT
 BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1993
 ID NUMBER TX-0106
 SOURCE TYPE CODE 6.13
 PAGE 6- 636

05/21/1985

COMPANY NAME/SITE LOCATION	DIAMOND SHAMROCK CORP.
	1149 ELLSWORTH DR.

WARREN COUNTY

DATE OF PERMIT ISSUANCE-- 06/20/80
ESTIMATED DATE OF START-11B--

PERMIT NO. TX-276

JOHN BUNYAK
(AGENCY CONTACT PERSON)

THROUGHPUT
CAPACITY

960.00 РУБТУ/М ЕА

ON LIMITS

WSPS

BACT

BACT

NSPS

BACT

BACT

PART

1992

NOTES -----
MODIFIED EXISTING CHLORINE CAUSTIC BY CONSTRUCTING A 313 MW COMBINED CYCLE POWER GENERATING FACILITY.

INITIAL REVIEW

REVIEW STATUS: 04/01/1983

ID NUMBER TX-0075

SOURCE	TYPE	CODE	6.14
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20
21	21	21	21
22	22	22	22
23	23	23	23
24	24	24	24
25	25	25	25
26	26	26	26
27	27	27	27
28	28	28	28
29	29	29	29
30	30	30	30
31	31	31	31
32	32	32	32
33	33	33	33
34	34	34	34
35	35	35	35
36	36	36	36
37	37	37	37
38	38	38	38
39	39	39	39
40	40	40	40
41	41	41	41
42	42	42	42
43	43	43	43
44	44	44	44
45	45	45	45
46	46	46	46
47	47	47	47
48	48	48	48
49	49	49	49
50	50	50	50
51	51	51	51
52	52	52	52
53	53	53	53
54	54	54	54
55	55	55	55
56	56	56	56
57	57	57	57
58	58	58	58
59	59	59	59
60	60	60	60
61	61	61	61
62	62	62	62
63	63	63	63
64	64	64	64
65	65	65	65
66	66	66	66
67	67	67	67
68	68	68	68
69	69	69	69
70	70	70	70
71	71	71	71
72	72	72	72
73	73	73	73
74	74	74	74
75	75	75	75
76	76	76	76
77	77	77	77
78	78	78	78
79	79	79	79
80	80	80	80
81	81	81	81
82	82	82	82
83	83	83	83
84	84	84	84
85	85	85	85
86	86	86	86
87	87	87	87
88	88	88	88
89	89	89	89
90	90	90	90
91	91	91	91
92	92	92	92
93	93	93	93
94	94	94	94
95	95	95	95
96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE CHLOROBENZENE

COMPANY NAME/SITE LOCATION BOFORS NOBEL, INC.
5025 EVANSTON AVE.

MUSKEGON, MI

DETERMINATION IS BACK FOR A NEW SOURCE.
PERMIT NO. 615-61
DETERMINATION MADE BY MICHIGAN DNR
(AGENCY)

DANITA BRANDT
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/25/82
ESTIMATED DATE OF START-UP-- 1982
(517)-322-1333
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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DCB MANUFACTURE	3.00 MMLB/YR	DCB	9.0600 UG/CU. METER DUAL ABSOLUTE FILTERS IN SERIES	99.99
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DCB PACKOUT	3.00 MMLB/YR	DCB	3.5200 UG/CU. METER DUAL ABSOLUTE FILTERS IN SERIES	99.99
-------------	--------------	-----	--	-------

NOTES -----
TOTAL CONCENTRATION FROM ALL SOURCES (6 STACKS) MODELED FOR RISK ASSESSMENT ON THIS CARCINOGEN. FOUR STACKS IN MANUFACTURING P
PROCESS, TWO STACKS ON PACKOUT FACILITY.
INDIVIDUAL CONCENTRATIONS ARE 0.01, 3.07, 2.27, 3.71, 2.51, AND 1.01 UG/CUBIC METER.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 03/13/1984
SOURCE TYPE CODE 6.15

ID NUMBER MI-0020

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE
 ETHYLENE AND POLYETHYLENE
 COMPANY NAME/SITE LOCATION E.I. DUPONT DE NEMOURS
 TX
 ORANGE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. 9176
 DETERMINATION MADE BY TEXAS ACB
 (AGENCY)
 LOUIS ROBERTS
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 12/27/82
 ESTIMATED DATE OF START-UP-- 1982
 (512)-451-5711
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT
 THROUGHPUT CAPACITY
 POLLUTANT EMITTED
 EMISSION LIMITS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION
 ... & BASIS
 ... PCT EFF

COMPRESSION & POLYMERIZATION

SEE NOTE
 SWITCH FROM HOMOPOLYMER TO COPOLYMER PROD

PELLETIZING

SEE NOTE
 SWITCH FROM HOMOPOLYMER TO COPOLYMER PROD

PRODUCT HANDLING & STORAGE

SEE NOTE
 SWITCH FROM HOMOPOLYMER TO COPOLYMER PROD

NOTES

ADDITIONAL ABATEMENT SUCH AS CATALYTIC INCINERATION OR VACUUM EXTRUSION WOULD BE UNREASONABLY COSTLY BECAUSE OF SPACE LIMITATIONS, NEEDED FOR BAG FILTERS. COSTS WOULD RANGE FROM \$4000 - 17000 PER ANNUAL TON ABATED. CAPITAL COSTS
 NOTE -- 90 T/YR INCREASE OVER GRANDFATHERED UNIT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 05/04/1984

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ID NUMBER TX-0121

SOURCE TYPE CODE 6.24

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ETHYLENE AND POLYETHYLENE 690.00 MMLB/YR

COMPANY NAME/SITE LOCATION GULF OIL CHEMICALS

VICTORIA, TX

VICTORIA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-299
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

RAGAN BROYLES
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/17/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
----------------------------------	---------------------	-------------------	-----------------	---	-------------------------

BOILERS, 4 EA 49.00 MBTU/H EA

PM	0.0200 LB/MBTU OIL	BACT
	0.0100 LB/MBTU GAS	
	GAS FIRED	
SO2	0.7500 LB/MBTU OIL	BACT
	LOW SULFUR FUEL OR GAS	
NOX	0.3000 LB/MBTU OIL	BACT
	0.1200 LB/MBTU GAS	
	LOW NOX BURNERS	

CATALYTIC ACTIVATORS, 2 EA 10.00 MBTU/H EA

PM	0.1000 LB/H	BACT
	GAS FIRED	
SO2	TRACE	BACT
	LOW SULFUR FUEL/GAS	
NOX	0.1200 LB/MBTU	BACT
	LOW NOX BURNERS	

PREHEATERS, 2 EA

PM	TRACE	BACT
	GAS FIRED	
SO2	TRACE	BACT
	LOW SULFUR FUEL/GAS	
NOX	0.1000 LB/H	BACT
	LOW NOX BURNERS	

CATALYTIC ACTIVATOR FILTERS, 2 *

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
SOURCE TYPE CODE 6.24

ID NUMBER TX-0016

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(CONTINUED) GULF OIL CHEMICALS

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
BLOW TANK FILTERS, 2 EA		PM	TRACE BAG FILTER	BACT 99.90
CATALYTIC FILTERS, 2 EA		PM	TRACE BAG FILTER	BACT 99.90
STORAGE SILOS		PM	TRACE BAG FILTER	BACT 99.90
FLARE, 10 EA		PM	TRACE BAG FILTERS	BACT 99.90
CATALYTIC INCINERATOR		PM	0.1000 LB/H	BACT
			STEAM INJECTION	BACT
		SO ₂	TRACE	BACT
		NO _X	LOW SULFUR OIL (0.7%)	BACT
			2.3000 LB/H	BACT
			EFFICIENT DESIGN	
		NO _X	15.0000 LB/H	BACT
			LOW NO _X BURNERS	

NOTES -----
TRACE EQUALS LESS THAN ONE POUND PER HOUR.

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ETHYLENE AND POLYETHYLENE

COMPANY NAME/SITE LOCATION TEXAS EASTMAN CO.
P.O. BOX 7444

LONGVIEW, TX 75607

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. TX-332
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

DATE OF PERMIT ISSUANCE-- 05/27/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

TOM DIGGS
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

PYROLYSIS FURNACE 100.00 HHBTU/H

PM	1.0000 LB/H	COMBUSTION CONTROL	BACT
CO	1.7000 LB/H	COMBUSTION CONTROL	BACT
NOX	10.0000 LB/H	LOW NOX BURNERS, LEA FIRING	BACT
SO2	0.1000 LB/H	NAT. GAS/OFF GAS FIRED	BACT

PYROLYSIS FURNACE 100.00 HHBTU/H

PM	1.0000 LB/H	COMBUSTION CONTROL	BACT
CO	1.7000 LB/H	COMBUSTION CONTROL	BACT
NOX	10.0000 LB/H	LOW NOX BURNERS, LEA FIRING	BACT
SO2	0.1000 LB/H	NAT. GAS/OFF GAS FIRED	BACT

PYROLYSIS FURNACES, 4 165.00 HHBTU/H EA

PM	1.0000 LB/H EA	COMBUSTION CONTROL	BACT
CO	3.0000 LB/H EA	COMBUSTION CONTROL	BACT
NOX	17.0000 LB/H	LOW NOX BURNERS, LEA FIRING	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER TX-0077

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 6-24

(CONTINUED) TEXAS EASTMAN CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
PROCESS HEATER	10.00 MMBTU/H	SO2	0.2000 LB/H NAT. GAS/OFF GAS FIRED	BACT
		PH	1.0000 LB/H COMBUSTION CONTROL	BACT
		CO	0.2000 LB/H COMBUSTION CONTROL	BACT
		NOX	1.2000 LB/H LOW NOX FIRING, LEA FIRING	BACT
		SO2	0.0100 LB/H NAT. GAS/OFF GAS FIRED	BACT
BOILERS, 2	330.00 MMBTU/H	PH	14.0000 LB/H TAR 1.0000 LB/H NAT GAS COMBUSTION CONTROL	BACT
		CO	4.6000 LB/H TAR 3.2000 LB/H NAT GAS COMBUSTION CONTROL	BACT
		NOX	42.0000 LB/H TAR 22.6000 LB/H NAT GAS LOW NOX BURNERS, LEA FIRING	BACT
		SO2	12.0000 LB/H TAR 1.0000 LB/H NAT GAS 0.075% S FUEL (TAR)	BACT
PELLET STORAGE & HANDLING		PH	1.1000 LB/H BAGHOUSE	BACT 97.00

NOTES -----
NEW ORGANIC CHEM. MFG FACILITY - LOW DENSITY POLYETHYLENE UNIT. NEW HYDROCARBON CRACKING UNIT CONSISTING OF 6 PYROLYSIS FURNACES, TWO BOILERS AND ONE PROCESS HEATER. WHEN 2 FUELS ARE FIRED SIMULTANEOUSLY, ALLOWABLE EMISSIONS (LB/HR) BY POLLUTANT SHALL BE DETERMINED BY: $E = (128 \text{ BTU TAR/HR})(\text{LB/1000 BTU GAS}) + (113 \text{ BTU GAS/HR})(\text{LB/1000 BTU GAS})$. FUEL FIRING RATE FOR EACH ABOVE BOILER SHALL NOT EXCEED 7950 LB/HR PYROLYSIS TAR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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REVIEW STATUS: 04/01/1983

INITIAL REVIEW POST STARTUP

ID NUMBER TX-0077

SOURCE TYPE CODE 6.24

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

270.00 MT/YR

ETHYLENE AND POLYETHYLENE

SOURCE TYPE/SIZE

BELLAIRE, TX 77401

COMPANY NAME/SITE LOCATION TEX-USS
4600 FOURNAIE PLACE

DATE OF PERMIT ISSUANCE-- 04/16/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSO-TX-336
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STEAM BOILER	99.00 MMSTU/H	NOX	0.1100 LB/MMBTU LOW NOX BURNERS	BACT
STEAM BOILER	99.00 MMSTU/H	NOX	0.1100 LB/MMSTU LOW NOX BURNERS	BACT

BACT

BACT

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
SOURCE TYPE CODE 6.24

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

ID NUMBER TX-0037

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE
ETHYLBENZENE/STYRENE

900.00 MMBL/YR

COMPANY NAME/SITE LOCATION AMERICAN HOECHST

PASADENA, TX

HARRIS COUNTY

DETERMINATION IS FACT FOR A NEW SOURCE.

PERMIT NO. 5252
DETERMINATION MADE BY TEXAS A&M
(AGENCY)

SAM CROWTHER
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/01/77
ESTIMATED DATE OF START-UP-- 1978
(512)-451-5711
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

1.20 MMBTU/H TO*

BOILERS, 4 & HEATERS, 6

POLLUTANT
EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

PM 15.0000 T/YR

PROC., RESIDUE, & NAT. GAS FIRED

SO2

1.1000 T/YR

PROC., RESIDUE, & NAT. GAS FIRED

NOX

569.0000 T/YR

0.1750 LB/HBTU

PROC., RESIDUE, & NAT. GAS FIRED

PROCESS VENTS

VOC

NONE

VENTED

TANKS, 10

VOC 16.0000 T/YR

INT. FLOAT COVER & WHITE PAINT

NOTES -----

FIRST TEXAS EB/STYRENE UNIT WITH NO PROCESS VENTS TO ATMOSPHERE

100.00

AP42

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

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ID NUMBER TX-0083

SOURCE TYPE CODE 6.27

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FLUOROCARBONS

COMPANY NAME/SITE LOCATION DUPONT

WHITE RIVER TOWNSHIP, MI

MUSKEGON COUNTY

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. 756-79
DETERMINATION MADE BY MICHIGAN DNR
(AGENCY)

DANITA BRANDT
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/15/80
ESTIMATED DATE OF START-UP-- 1982
(517)-302-1333
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

FREON 22 MFG

VOC

205.0000 LB/H

NO VISIBLE CONTROLS

NOTES

FREON 23 HAS LOW REACTIVITY

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 03/13/1984

ID NUMBER MI-0010

SOURCE TYPE CODE 6.31

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE

FORMALDEHYDE

20000.00 GAL

COMPANY NAME/SITE LOCATION EXXON CHEMICAL AMERICAS

HOUSTON, TX

HARRIS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. X3753

DETERMINATION MADE BY

TEXAS ACB
(AGENCY)

STUART KEIL

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/16/82

ESTIMATED DATE OF START-UP-- 1983

(512)-451-5711

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

WATER TREATMENT CHEMICALS MFG U# 20000.00 GAL

FOR*

VOC

STATIC SCRUBBER W/SODIUM BISULFITE SOL.
NIL EMISSIONS

NOTES -----

EFFICIENCY NOT DETERMINED AT THIS TIME. PROCESS CONCERNS FORMALDEHYDE STORAGE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: 04/01/1983

INITIAL REVIEW POST STARTUP

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ID NUMBER TX-0098

SOURCE TYPE CODE 6.32

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE

FORMALDEHYDE

64400.00 LB/H INPUT

COMPANY NAME/SITE LOCATION GEORGIA-PACIFIC CORP.

CONWAY, NC

NORTHAMPTON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. NC-C60

DETERMINATION MADE BY

NORTH CAROLINA DEM

(AGENCY)

MIKE SEWELL

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/17/80

ESTIMATED DATE OF START-UP--

(919)-733-6126

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

FORMALDEHYDE PRODUCTION

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

VOC

10.0000 LB/H

CATALYTIC CONVERTER

BACT

95.00

BACT

60.00

10.0000 LB/H

CATALYTIC CONVERTER

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

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ID NUMBER NC-0008

SOURCE TYPE CODE 6.32

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FORMALDEHYDE 150.00 MMLB/YR

COMPANY NAME/SITE LOCATION INTERNAT. MINERALS & CHEMICAL CORP. SOUTH WHITEHALL TOWNSHIP, PA

LEHIGH COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) 79PA10
DETERMINATION MADE BY EPA REGION III
(AGENCY)

BOB BLASZCZAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/12/79
ESTIMATED DATE OF START-UP-- 1980
(215)-597-8186
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FORMALDEHYDE PLANT	5800.00 ACFM (70 DE*	VOC	10.1000 LB/H	BACT 90.00
		CO	2.0300 LB/H	BACT
STORAGE TANK (FORMALDEHYDE)	150.00 MGAL	VOC	0.0400 LB/H	BACT 90.00
			VAPOR RECOVERY SYS	
STORAGE TANK (METHANOL)	100.00 MGAL	VOC	0.1000 LB/H	BACT 90.00
			VAPOR RECOVERY SYS	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE MALEIC ANHYDRIDE 133.00 MHLB/YR
 COMPANY NAME/SITE LOCATION HONSANTO CO.
 P.O. BOX 12830 PENSACOLA, FL 32575 ESCAMBIA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. FL-055 DATE OF PERMIT ISSUANCE-- 03/26/81
 DETERMINATION MADE BY FLORIDA DER ESTIMATED DATE OF START-UP-- 1983
 (AGENCY) (PHONE)

ED PALAGYI
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
MALEIC ANHYDRIDE PRODUCTION	133.00 MHLB/YR	VOC	700.0000 LB/H	BACT
		CO	670.0000 LB/H	90.00
			INCINERATION	BACT
			INCINERATION	9.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983 01/25/1984
 ID NUMBER FL-0023 SOURCE TYPE CODE 6.36

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE METHANOL

COMPANY NAME/SITE LOCATION DOW CORNING CORP.

CARROLLTON, KY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. C-78-73

DETERMINATION MADE BY KENTUCKY DAPC
(AGENCY)

BILL DILLS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/16/78
ESTIMATED DATE OF START-UP-- 1979
(502)-564-3362
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

GRINDING, SCREENING, CONVEYING

PM 22.0000 T/YR

FABRIC FILTER

VOC

60.0000 T/YR

VAPOR RECOVERY

VOC

4.0000 T/YR

VAPOR RECOVERY

PILOT PLANT, CHLOROSILANE

99.00

98.30

99.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER KY-0031

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 02/13/1984

SOURCE TYPE CODE 6.37

05/21/1985

SOURCE	TYPE/SIZE	METHANOL
1	100	100
2	100	100
3	100	100
4	100	100
5	100	100
6	100	100
7	100	100
8	100	100
9	100	100
10	100	100
11	100	100
12	100	100
13	100	100
14	100	100
15	100	100
16	100	100
17	100	100
18	100	100
19	100	100
20	100	100
21	100	100
22	100	100
23	100	100
24	100	100
25	100	100
26	100	100
27	100	100
28	100	100
29	100	100
30	100	100
31	100	100
32	100	100
33	100	100
34	100	100
35	100	100
36	100	100
37	100	100
38	100	100
39	100	100
40	100	100
41	100	100
42	100	100
43	100	100
44	100	100
45	100	100
46	100	100
47	100	100
48	100	100
49	100	100
50	100	100
51	100	100
52	100	100
53	100	100
54	100	100
55	100	100
56	100	100
57	100	100
58	100	100
59	100	100
60	100	100
61	100	100
62	100	100
63	100	100
64	100	100
65	100	100
66	100	100
67	100	100
68	100	100
69	100	100
70	100	100
71	100	100
72	100	100
73	100	100
74	100	100
75	100	100
76	100	100
77	100	100
78	100	100
79	100	100
80	100	100
81	100	100
82	100	100
83	100	100
84	100	100
85	100	100
86	100	100
87	100	100
88	100	100
89	100	100
90	100	100
91	100	100
92	100	100
93	100	100
94	100	100
95	100	100
96	100	100
97	100	100
98	100	100
99	100	100
100	100	100

100.00 MGA! / YR

[illegible]

DELAWARE CITY, DE

NEW CASTLE COUNTY

DETERMINATION IS BACK FOR A NEW SOURCE.

PERMIT NO. 80DE01

DETERMINATION MADE BY
EPA REGION III
(AGENCY)

BOB BLASZCZAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/10/80
ESTIMATED DATE OF START-UP--
(215)-597-6166
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

**THROUGHPUT
CAPACITY**

[illegible]

**POLLUTANT
EMITTED**

ON LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

TUBULAR REFORMER

1.39 MCM/LB/YR

0.1300 LB/MMBTU
COEN LOW

LB/HHTU
COEN LOW NOX BURNERS

DACT

STORAGE TANKS, METHANOL

115.00 MBBLYR

NOX

SEE NOTES

BACT
75.00

NOTES -----

NOX CONTROLLED BY INTERNAL FLOATING ROOFS + PROPER MAINTENANCE OF STORAGE TANK SEALS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER DE-0001

SOURCE	TYPE	CODE	6.37
1	2	3	4

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PAINT & VARNISH

3.00 MHLB/YR

COMPANY NAME/SITE LOCATION SUN CHEMICAL CORP.
4925 EVANSTON AVE.

MUSKEGON, MI 49442

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 351-82
DETERMINATION MADE BY MICHIGAN DNR
(AGENCY)

DATE OF PERMIT ISSUANCE-- 08/24/82
ESTIMATED DATE OF START-UP-- 1983
(517)-322-1333
(PHONE)

ASAD KHAN
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

AZO RED PIGMENT MANUFACTURING P#

3.00 MHLB/YR

BET#

0.3300 UG/CU. METER
2 ABS FILTERS & A WET SCRUBBER

BACT
99.99

NOTES

THE ABOVE BACT LIMIT IS ALSO BASED ON GUIDELINES DEVELOPED BY THE AIR ADVISORY COMMITTEE TO THE APC COMMISSION, MICHIGAN DNR,
FOR NON-CRITERIA POLLUTANTS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1985 03/13/1984

SOURCE TYPE CODE 6.42

ID NUMBER MI-0030

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

1260.00 CF/BATCH

PHARMACEUTICAL

CHEESEBOROUGH PONDS, INC.

SHERBURNE, NY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

DATE OF PERMIT ISSUANCE-- 03/10/83

PERMIT NO. 085600-0264-00005

ESTIMATED DATE OF START-UP-- 1983

DETERMINATION MADE BY NEW YORK DEC

(315)-428-4484

(AGENCY)

DALE VOLLMER

(PHONE)

(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

STERILIZER

1260.00 CF/BATCH

ETO

0.4100 LB/H

"DEOXX" T.M.

BACT

99.00

NOTES

THE "DEOXX" PROCESS IS PENDING PATENT APPROVAL. THE MANUFACTURER HAS REQUESTED THAT CERTAIN INFORMATION REMAIN CONFIDENTIAL.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/13/1994

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ID NUMBER NY-0011

SOURCE TYPE CODE 6.43

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PHARMACEUTICAL

COMPANY NAME/SITE LOCATION ELI LILLY

GREENFIELD, IN

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. EPA-5-A-81-7

DETERMINATION MADE BY EPA REGION V

(AGENCY)

BONIFACE THAYIL

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/04/81

ESTIMATED DATE OF START-UP-- 1985

(312)-886-6054

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

COAL FIRED BOILER

123.00 MMBTU/H

PM

0.0930 LB/MMBTU

49.6000 T/YR

BAGHOUSE

NOX

0.6000 LB/MMBTU

323.0000 T/YR

SO2

1.6000 LB/MMBTU 3H AV

LOW S COAL

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

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ID NUMBER IN-0002

SOURCE TYPE CODE 6.43

APPENDIX --- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PHARMACEUTICAL

COMPANY NAME/SITE LOCATION MEAD JOHNSON & CO.

MOUNT VERNON, IN

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. PC(65) 1507

DETERMINATION MADE BY INDIANA APCD

(AGENCY)

FRANK PROFIT

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/12/82

ESTIMATED DATE OF START-UP--

(317)-633-0664

(PHONE)

PROCESSES SUBJECT

TO THIS PERMIT

THROUGHPUT

CAPACITY

BOILERS, COAL-FIRED, 2 EA 40000.00 LB/H

POLLUTANT

EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS

... PCT EFF

PM

0.0300 LB/HRTU

MULTICLONE & BAGHOUSE

98.60

SO2

2.1000 LB/HRTU

MAX 1.3% SULFUR COAL

NOX

0.6500 LB/HRTU

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER IN-0020

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 6.43

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

80.00 MTLB/YR

PHTHALIC ANHYDRIDE

COMPANY NAME/SITE LOCATION ASHLAND CHEMICAL CO.

HEAL, WV

WAYNE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 78M/02

DETERMINATION MADE BY EPA REGION III (AGENCY)

VERNON BUTLER (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/07/80
ESTIMATED DATE OF START-UP-- 1982
(215)-597-2711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT

POLLUTANT EMISSION LIMITS
EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

INCINERATOR

CO	86.7000 LB/H	CATALYTIC INCINERATOR	BACT
VOC	49.3000 LB/H	CATALYTIC INCINERATOR	95.00 BACT
502	16.0000 LB/H	1% SULFUR FUEL OIL	95.00 BACT

HEATER

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

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ID NUMBER WV-0002

SOURCE TYPE CODE 6.45

APPENDIX -- DETAILED SOURCE LISTING

===== 05/21/1985 =====

SOURCE TYPE/SIZE PHTHALIC ANHYDRIDE

COMPANY NAME/SITE LOCATION KOPPERS

CHICAGO, IL

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 22 05 0034

DETERMINATION MADE BY ILLINOIS EPA

(AGENCY)

CHRIS ROMAINE

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/12/84

ESTIMATED DATE OF START-UP-- 1984

(217)-782-2113

(PHONE)

PROCESSES SUBJECT

TO THIS PERMIT

THROUGHPUT

CAPACITY

POLLUTANT

EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS

... PCT EFF

WASTE INCINERATOR & REACTOR

1140.00 T/YR SO2

SO2

260.0000 LB/H

0.8000 % BY WT S. MAX

MATERIAL SPECIFICATION

BACT

NOTES -----

ALSO STATE ID NUMBER 031 300 AAJ

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 658

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 08/21/1984

ID NUMBER IL-0029

SOURCE TYPE CODE 6.45

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE PROYLENE OXIDE

COMPANY NAME/SITE LOCATION ARCO CHEMICAL CO.

, TX

HARRIS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 9395

DETERMINATION MADE BY

TEXAS ACB
(AGENCY)

PETE ROBERTS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/09/84
ESTIMATED DATE OF START-UP-- 1984
(512)-451-5711
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

PLANT, PROPYLENE OXIDE

THROUGHPUT
CAPACITY

CONFIDENTIAL

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

VOC 75.0000 T/YR

PRO* 1.0000 T/YR

HIGH ENERGY VENTURI
SCRUBBER

BACT

BACT
99.98

NOTES

NET EMISSIONS DECREASED DUE TO MODIFICATION. SCRUBBER HAS PRESSURE DROP EQUAL 55 INCHES H2O.

(*) INDICATES DATUM HAS TRUNCATED FOR THIS TABLE.

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REVIEW STATUS:

ID NUMBER TX-0146

INITIAL REVIEW POST STARTUP

SOURCE TYPE CODE 6.46

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE Sulfur Recovery

25.00 T/D Sulfur

COMPANY NAME/SITE LOCATION AMOCO PRODUCTION CO.

ANDREWS, TX

ANDREWS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 7725

DETERMINATION MADE BY

TEXAS ACB
(AGENCY)

SAM CROWTHER
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/16/79
ESTIMATED DATE OF START-UP-- 1980
(512)-451-5711
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

SULFUR RECOV. ON NAT. GAS STREAM

4.00 HHSCFD GAS

S02

270.0000 T/YR

COLD BED ADSORPTION DESIGN

98.50

NOTES

THIS PROCESS USES A FINAL CATALYST BED MAINTAINED AT LOW TEMP. SO THAT SULFURPRODUCED IS REMOVED FROM REACTION SYSTEM. OVERALL EQUILIBRIUM IS THUS SHIFTED SO THAT HIGHER PERCENT CONVERSIONS OF HYDROGEN SULFIDE TO SULFUR IS ACHIEVED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

PAGE G- 660

ID NUMBER TX-0095

SOURCE TYPE CODE 6.52

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE SULFUR RECOVERY

COMPANY NAME/SITE LOCATION SPONGE, INC.

CLEVELAND, OH 44102

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 13-958

DETERMINATION MADE BY

CLEVELAND DAPC
(AGENCY)

IKRAM HABIB
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE--

ESTIMATED DATE OF START-UP--

(216)-664-3500
(PHONE)

1982

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

H2S CONVERTER, SETTLING TANK & * 160.00 GAL/H

H2S

0.0200 LB/H

0.2600 GR/100 CF

NA2S CONVERTED TO H2S THEN S.

99.00

NOTES

H2S GAS WHICH IS EVOLVED IN SPONGE MANUFACTURING PROCESS IS REMOVED BY CAUSTIC SCRUBBERS, THE WASTE WATERS FROM WHICH CONTAIN LARGE AMOUNTS OF NA2S. SULFURIC ACID TREATMENT OF THIS WATER RE-LIBERATES H2S WHICH THE CATABAN REACTOR CONVERTS INTO ELEMENTAL SULFUR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

ID NUMBER OH-0027

SOURCE TYPE CODE 6.52

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE Sulfur Recovery 50.00 T/D

COMPANY NAME/SITE LOCATION TEXACO, INC. - PUGET SOUND REFINERY ANACORTES, WA 98221

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. NORTHWEST APA
DETERMINATION MADE BY (AGENCY)

GLEN HALLMAN
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/25/81
ESTIMATED DATE OF START-UP-- 1983
(206)-336-5705
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

CLAUS SULFUR UNITS, 2

25 00 LT/D, EA

SO2

6.4000 LB/H
28.0000 T/YR

SCOT TAIL GAS TREATING UNIT

SO2

250.0000 PPM DSCF, 0% O2
INCINERATOR STACK

99.90
NSPS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

PAGE G- 662

ID NUMBER WA-0005

SOURCE TYPE CODE 6.52

05/21/1985

COMPANY NAME/SITE LOCATION ASHLAND SYNTHETIC FUELS, INC.
P.O. BOX 391

DATE OF PERMIT ISSUANCE-- 02/28/80
ESTIMATED DATE OF START-UP-- 1980
(502)-564-3362
(PHONE)

BILL DILLS
(AGENCY CONTACT PERSON)

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION
... 1 BASIS
... PCT EFF

PM	62.6000 T/YR	BAG HOUSES
S02	93.2400 T/YR	SULFUR RECOVERY UNIT

NOTES -----
4368 H/YR OPERATION. PLANT SHUTDOWN 11/18/82.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW	POST STARTUP
REVIEW STATUS: 04/01/1983	02/13/1984

PAGE G- 663

ID NUMBER KY-0013

SOURCE TYPE CODE 6.53

05/21/1985

COMPANY NAME/SITE LOCATION	LOCATION	ASHLAND SYNTHETIC FUELS, INC.

DATE OF PERMIT ISSUANCE-- 12/17/79
ESTIMATED DATE OF START-UP-- 1980
(502)-564-3302
(PHONE)

BILL DYLLS
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

62.60 MBTU/

POLLUTANT EMITTED	EMISSION LIMITS CONTROL
----------------------	----------------------------

... & BASIS
... PCT EFF

62.60 173TU/M

PH	2.0000 LB/H
	10.0000 T/YR
CO	1.0000 T/YR
SO2	3.0000 T/YR
NOX	6.0000 T/YR
VOC	1.0000 T/YR

REACTOR HEATERS, 201A & B, TOTAL 53.00 HHBTU/H

1.0000 LB/H
5.0000 T/YR

REACTOR HEATER #201C 48.40 MBTU/H

1.0000 LB/H
5.0000 T/YR

CO
502
40X
VOC

22.90 MMSTU/H
FILTRATE HEATERS

1.0000 LB/H
5.0000 T/YR

HYDROGEN HEATER 16.40 HMBTU/H

0.6000 LB/H
3.5000 T/YR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 02/13/1984

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ID NUMBER KY-0023

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100	100	100	100

(CONTINUED) ASHLAND SYNTHETIC FUELS, INC.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
THERMOLIQUID HEATER	36.60 MMBTU/H	CO	3.0000 T/YR	
		SO ₂	1.0000 T/YR	
		NOX	2.0000 T/YR	
		VOC	1.0000 T/YR	
		PM	0.6000 LB/H	
			2.6300 T/YR	
		CO	2.0000 T/YR	
		SO ₂	12.0000 T/YR	
		NOX	8.0000 T/YR	
DEASHING UNIT HTRS. #501 & 502	19.80 MMBTU/H	VOC	1.0000 T/YR	
		PM	0.4000 LB/H	
			1.7500 T/YR	
		CO	1.0000 T/YR	
		SO ₂	9.0000 T/YR	
		NOX	6.0000 T/YR	
		VOC	1.0000 T/YR	
COAL UNLOADING	300.00 T/H	PM	9.0000 LB/H	99.00
			3.7500 T/YR	
COAL RECLAIM	208.00 T/H		FABRIC FILTER	
		PM	5.2000 LB/H	99.00
			4.0000 T/YR	
CRUSHED COAL BIN	208.00 T/H		FABRIC FILTER	
		PM	4.0000 T/YR	99.00
			FABRIC FILTER	
COAL DRYING	208.00 T/H	PM	0.6000 LB/H	99.00
			2.1000 T/YR	
			FABRIC FILTER	
COAL STORAGE	208.00 T/H	PM	1.0000 T/YR	99.00
			FABRIC FILTER	
FLAKER	208.00 T/H	PM	0.2100 LB/H	99.00
			0.9400 T/YR	
			FABRIC FILTER	

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 02/13/1984

SOURCE TYPE CODE 6.53

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER KY-0023

(CONTINUED) ASHLAND SYNTHETIC FUELS, INC.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
OIL MIST ELIMINATOR				
FLARE		PM	8.1500 LB/H 35.7000 T/YR MIST ELIMINATOR	99.00
NAPHTHA TANKS, 3		PM	1.0000 T/YR	
RESID. OIL TANKS		SO2	1.0000 T/YR	
DISTIL. FUEL TANKS		VOC	1.0000 T/YR	
COAL HYD. REACTOR		VOC	1.0000 T/YR	
		VOC	1.0000 T/YR	
		SO2	90.0000 T/YR PROCESS GAS RECOVERY	99.90

NOTES -----
NON-ATTAINMENT FOR PM, SO2, NOX. PLANT SHUTDOWN 11/18/82.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983 02/13/1984
 ID NUMBER KY-0023 SOURCE TYPE CODE 6.53
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE SYNFUELS/FUEL CONVERSION (NOT OIL SHALE) 55.00 MM

COMPANY NAME/SITE LOCATION DEPT OF WATER RESOURCES BOTTLE ROCK PROJECT , CA LAKE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. NC-79-08
 DETERMINATION MADE BY EPA REGION IX (AGENCY)
 BOB BAKER (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 06/15/81
 ESTIMATED DATE OF START-UP-- (415)-974-8220 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY 55.00 MM NET
 GEOTHERMAL POWER PLANT
 H2S 5.0000 LB/H
 BACT
 POLLUTANT EMISSION LIMITS ... & BASIS
 ENITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

NOTES

ETC PROCESS ON STEAM PRETREATMENT, STRETTFORD PROCESS FOR NON-CONDENSABLE STREAM AND H2 O2/CATALYST FOR CONDENSATE TREATMENT. A
 LSO INCLUDES SURFACE CONDENSER AND TURBINE BYPASS TO PREVENT H2S

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983 04/04/1984

ID NUMBER CA-0005

SOURCE TYPE CODE 6.53

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE SYNFUELS/FUEL CONVERSION (NOT OIL SHALE)

COMPANY NAME/SITE LOCATION DOW CHEMICAL, INC., LOUISIANA DIV.

PLAQUEMINE, LA

IBERVILLE PARISH

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. PSD-LA-512

DETERMINATION MADE BY

LAGD/EPA REGION VI

(AGENCY)

JAY GUPTA

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/13/83

ESTIMATED DATE OF START-UP-- 1983

(504)-342-8940

(PHONE)

PROCESSES SUBJECT

TO THIS PERMIT

THROUGHPUT

CAPACITY

EMISSION LIMITS

POLLUTANT

CONTROL

EQUIPMENT OR PROCESS MODIFICATION

... & BASIS

... PCT EFF

GAS PRODUCTION, SYNTHETIC

1600.00 MMBTU/H

SO2

102.2000 LB./H

17.0000 PPM

TREATED USING SELECTAHINE ACID GAS REMOVAL

97.30

INCINERATOR, TAIL GAS, SULFUR R*

10.00 MMBTU/H

SO2

524.0000 LB./H

GOOD COMBUSTION PRACT.

NOTES

A MORE STRINGENT CONTROL ON SULFUR EMISSIONS FROM GAS TURBINES MORE THAN OFFSETS SOMEWHAT HIGHER EMISSIONS FROM TAIL GAS INCINERATOR. THUS, THE SUM OF EMISSION RATES OF THE TWO SOURCES IS BELOW THE SUM OF THE EMISSION LIMITS ALLOWED BY NSPS FOR GAS TURBINES AND STATE REGULATIONS FOR SULFUR RECOVERY PLANTS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER LA-001B

REVIEW STATUS:

INITIAL REVIEW POST STARTUP

SOURCE TYPE CODE 6.53

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE
SYNUELS/FUEL CONVERSION (NOT OIL SHALE)
COMPANY NAME/SITE LOCATION PACIFIC GAS & ELECTRIC CO., GEYSERS UNIT*
CA
LAKE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. NSR 4-4-1 NC 81-02
DETERMINATION MADE BY EPA REGION IX
(AGENCY)
MATT HABER
(AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/21/82
ESTIMATED DATE OF START-UP--
(415)-974-8209
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT
POWER PLANT
THROUGHPUT
CAPACITY
110.00 MW
POLLUTANT
EMITTED
H2S
EMISSION LIMITS
7.5000 LB/H
CONTROL EQUIPMENT OR PROCESS MODIFICATION
CATALYST SYSTEM
STRETTFORD PROC./EMISSION PLAN
... & BASIS
... PCT EFF

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 04/04/1984

ID NUMBER CA-0015A

SOURCE TYPE CODE 6.53

05/21/1985

COMPANY NAME/SITE LOCATION	PACIFIC GAS & ELECT. CO.	GEYSERS UNIT 17	CA

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GEOTHERMAL UNIT 17	110.00 M4			

H2S	0.1200 KG/H	SURFACE CONDENSER/STRETTFORD PROCESS SYS	90.00
-----	-------------	--	-------

NOTES -----
GEO THERMAL POWER PLANT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW	REVIEW STATUS:	POST STARTUP
04/01/1993	04/04/1984	
ID NUMBER CA-0015	SOURCE TYPE CODE	6.53

05/21/1985

SYNFUELS/FUEL CONVERSION (NOT OIL SHALE)

SACRAMENTO, CA

DATE OF PERMIT ISSUANCE-- 05/05/01

EPA REGION IX

BOB BAKER

**THROUGHPUT
CAPACITY**

EMISSION: LIMITS

IN: LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

55.00 MW

6.0000 LB/H
STRATFORD PROCESS UNIT

NOTES -----

NON-CONDENSABLE GAS STREAM -- STRETTFORD PROCESS UNIT -- CONDENSABLES FROM SURFACE CONDENSER - H2O2/FES04 SYS

INITIAL REVIEW POST STARTUP

04/04/1984

ID NUMBER CA-0012

SOURCE	TYPE	CODE	6.53
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100	100	100	100

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE SYNTHETIC FIBERS

COMPANY NAME/SITE LOCATION ALLIED CORP.

MONCURE, NC

CHATHAM COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 265725

DETERMINATION MADE BY NORTH CAROLINA DEM (AGENCY)

MIKE SEWELL (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/13/84
ESTIMATED DATE OF START-UP-- 1985
(919)-733-7015
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

FIBER PROCESS ALAN #384, TOTAL

VOC	106.4600 LB/H	CONDENSOR SYS & DISTALL	85.00
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FIBER PROCESS ALAN #5

VOC	18.1000 LB/H	CONDENSOR SYS & DISTALL	85.00
PM	0.6500 LB/H	ESP	95.00

BOILER, #6 FUEL OIL

64.20 MBTU

S02	1.6000 LB/MMBTU	LOW S FUEL -- 1.5%
PM	0.1200 LB/MMBTU	CONTROLLED COMBUSTION
NOX	0.4000 LB/MMBTU	CONTROLLED COMBUSTION

HEATER, #6 FUEL OIL

17.80 MBTU

S02	1.6000 LB/MMBTU	LOW S FUEL -- 1.5%
PM	0.1200 LB/MMBTU	CONTROLLED COMBUSTION
NOX	0.4000 LB/MMBTU	CONTROLLED COMBUSTION

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 10/01/1984

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ID NUMBER NC-0034

SOURCE TYPE CODE 6.54

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE SYNTHETIC FIBERS 110000.00 LB/H STEAM
 COMPANY NAME/SITE LOCATION CELANESE, ANCELLE PLANT CUMBERLAND, MD 21502 ALLEGANY COUNTY
 P.O. BOX 444

DETERMINATION IS BACT FOR A NEW SOURCE. DATE JF PERMIT ISSUANCE-- 04/03/79
 PERMIT NO. 78YD06-R ESTIMATED DATE OF START-UP-- 1990
 DETERMINATION MADE BY EPA REGION III (215)-597-8990
 (AGENCY) ED VOLLBERG (PHONE)
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED	110.00 MLB/H	PM	9.2400 LB/H 40.5000 T/YR	SIP
		S02	70.2300 LB/H 307.6000 T/YR	99.50 PSD
			SEE NOTES	66.50

NOTES
 INNOVATIVE TECHNOLOGY -- DRY FGD SYSTEM, SPRAY DRYER, & BAGHOUSE. PM LIMIT IS EQUIVALENT TO 0.021 GR/DSCF. PSD PERMIT EXPIRES 12/31/83.
 SOURCE HAS REQUESTED S02 EMISSIONS BE INCREASED TO 200.3 LB/H.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER MD-0001 SOURCE TYPE CODE 6.54
 PAGE G- 673

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE
 SYNTHETIC FIBERS
 245.00 MBTU/H COAL
 COMPANY NAME/SITE LOCATION E.I. DUPONT
 PHOENIX, NC
 BRUNSWICK COUNTY

DETERMINATION IS BACT
 PERMIT NO. NC-667
 DETERMINATION MADE BY
 NORTH CAROLINA DEH
 (AGENCY)
 MIKE SEWELL
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 04/25/80
 ESTIMATED DATE OF START-UP--
 (919)-733-6126
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT FFR
BOILER	245.00 MBTU/H COAL	PM	0.1000 LB/MBTU 24.5000 LB/H BAGHOUSE	BACT 99.00 BACT
		SO2	2.2000 LB/MBTU 1.4% S COAL	
		NOX	0.7000 LB/MBTU BOILER OPERATION & DESIGN	NSPS

NOTES -----
 TWO COAL FIRED BOILERS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 SOURCE TYPE CODE 6.54
 ID NUMBER NC-0011
 PAGE G- 674

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE SYNTHETIC FIBERS

97.00 MMSTU/H EA

COMPANY NAME/SITE LOCATION E.I. DUPONT

MINONA, SC 29501

FLORENCE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) SC-034
DETERMINATION MADE BY SOUTH CAROLINA DHEC
(AGENCY)

DATE OF PERMIT ISSUANCE-- 09/09/80
ESTIMATED DATE OF START-UP--
(803)-758-5406
(PHONE)

OTTO PEARSON
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

BOILERS, COAL, #1 + #2

97.00 MMSTU/H EA

POLLUTANT EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS

POLLUTANT	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS
PM	0.0560 LB/MMSTU	BAGHOUSE	BACT
SO2	1.7000 LB/MMSTU	1% SULFUR IN COAL	99.90 BACT
NOX	0.7000 LB/MMSTU	BOILER OPERATION & DESIGN	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 04/02/1984

ID NUMBER SC-0002

SOURCE TYPE CODE 6.5

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE
SYNTHETIC FIBERS

COMPANY NAME/SITE LOCATION GLOBE MANUFACTURING CO.

GASTONIA, NC

GASTON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 210684
DETERMINATION MADE BY

NORTH CAROLINA DEM
(AGENCY)

MIKE SEWELL
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/01/83
ESTIMATED DATE OF START-UP-- 1983
(918)-733-7015
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

ELASTIC FIBER EXTRUDING LINES

425.00 LB/H

POLLUTANT
EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

VOC

75.0000 % ANNUAL AV RED.

2 CARBON BED ADSORB. UNITS

78.00

NOTES

THERE NO ECONOMICALLY IDENTIFIABLE CONTROL OPTIONS TO IMPROVE SOLVENT RECOVERY FROM THIS TYPE PROCESS. THEREFORE, THE CARBON A DSORPTION SYSTEM WITH AN ANNUAL AVERAGE VOC REDUCTION OF 75% IS REPRESENTATIVE OF BACT.
THIS SOURCE CONSIST OF FOUR EXTRUDING LINES OF 8 CARBON BED UNITS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

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ID NUMBER NC-0028

SOURCE TYPE CODE 6.54

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE SYNTHETIC FIBERS

COMPANY NAME/SITE LOCATION GLOBE MANUFACTURING CO.

GASTONIA, NC

GASTONIA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 2106R6

DETERMINATION MADE BY NORTH CAROLINA DEM (AGENCY)

MIKE SEWELL (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/26/84
ESTIMATED DATE OF START-UP-- 1984
(919)-733-7015
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

EXTRUDING LINE, ELASTIC FIBER

2390.00 LB/D

POLLUTANT EMISSION LIMITS
EMIITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS

VOC 77.0000 % ANNUAL AVG REDUCTION
4 CARBON BED ADSORBS. UNITS

77.00

NOTES
NOT SUBJECT TO NSPS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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REVIEW STATUS: 12/28/1984

ID NUMBER NC-0026A

SOURCE TYPE CODE 6.54

INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/21/1995

SOURCE TYPE/SIZE SYNTHETIC FIBERS 284.40 MMBTU/H

COMPANY NAME/SITE LOCATION SPARTAN MILLS DOVER, GA

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. 2211-124-8586
 DETERMINATION MADE BY GEORGIA EPO (AGENCY)

PAUL IZANT (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/13/83
 ESTIMATED DATE OF START-UP-- 1985
 (404)-656-4867 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY 284.40 MMBTU/H

POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PM	0.1000 LB/MMBTU	MULTICLONE & F.F. BAGHOUSE	NSPS 99.00
SO2	1.2000 LB/MMBTU	USE OF 0.76% S COAL	NSPS
NOX	0.7000 LB/MMBTU	FURNACE, BURNER DESIGN	NSPS

BOILER

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE
SYNTHETIC FIBERS

233.00 MBTU/H

COMPANY NAME/SITE LOCATION SPARTAN MILLS

DOVER, GA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 2211-124-8961

GEORGIA EPD

(AGENCY)

PAUL IZANT

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE--

ESTIMATED DATE OF START-UP--

1986

(404)-656-4867

(PHONE)

PROCESSES SUBJECT

TO THIS PERMIT

BOILER, COAL-FIRED

THROUGHPUT
CAPACITY

233.00 MBTU/H

POLLUTANT
EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

PM

0.0500 LB/MBTU

BAGHOUSE

NSPS

99.00

BACT

SO2

3.4900 LB/H

1.0% SULFUR COAL

NOX

0.7000 LB/MBTU

OPERATING PROCEDURES & FURNACE DESIGN

NSPS

FLU*

2.2000 LB/H

WITHOUT CONTROLS

BACT

H2S*

4.7000 LB/H

1.0% SULFUR COAL

BACT

NOTES

PLANT NAME IS ALSO, OR MAY HAVE FORMERLY BEEN, KING FINISHING.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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REVIEW STATUS: INITIAL REVIEW POST STARTUP

ID NUMBER GA-0016A

SOURCE TYPE CODE 6.54

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE SYNTHETIC RUBBER/RUBBER TIRES 96.40 MBTU/H

COMPANY NAME/SITE LOCATION FIRESTONE TIRE CO.
3300 SYLVESTER RD ALBANY, GA 31702 DOUGHERTY COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. GA 067 DATE OF PERMIT ISSUANCE-- 11/25/80
DETERMINATION MADE BY GEORGIA EPD ESTIMATED DATE OF START-UP--
(AGENCY) (404)-656-6900
BILL MITCHELL (PHONE)
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY 96.40 MBTU/H
BOTTLE, OIL FUEL POLLUTANT EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

SO2 1% SULFUR FUEL OIL
PM 0.1600 LB/MBTU BAGHOUSE
BACT 99.00

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE SYNTHETIC RUBBER/RUBBER TIRES

COMPANY NAME/SITE LOCATION FIRESTONE TIRE CO.
P. O. BOX 1706

ALBANY, GA 31702

DOUGHERTY COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. GA 068
DETERMINATION MADE BY GEORGIA EPD (AGENCY)
BILL HITCHELL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 11/13/80
ESTIMATED DATE OF START-UP-- 1982
(404)-656-6900 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION ... BASIS
... PCT EFF

TIRE SEALANT LINE

VOC

32.5000 T/YR
CARBON ADSORPTION

BACT
90.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

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ID NUMBER GA-0003A

SOURCE TYPE CODE 6.55

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE
SYNTHETIC RUBBER/RUBBER TIRES

27700.00 LB/H INPUT

COMPANY NAME/SITE LOCATION
FIRESTONE TIRE CO.

WILSON, NC

DETERMINATION IS
PERMIT NO. NC-024

DATE OF PERMIT ISSUANCE--
ESTIMATED DATE OF START-UP--
(919)-733-6126
(PHONE)

DETERMINATION MADE BY
NORTH CAROLINA DEM
(AGENCY)

MIKE SEWELL
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

TIRE PROCESS LINES
27700.00 LB/H

PM 11.1000 LB/H

BAGHOUSE AND CYCLONE

BACT
90.00

SO2 106.0000 LB/H

1.0% SULFUR OIL

BACT

BOILER

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER NC-0009

SOURCE TYPE CODE 6.55

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE VINYL CHLORIDE/POLYVINYL CHLORIDE 81000.00 LB/H EDC

COMPANY NAME/SITE LOCATION B.F. GOODRICH CALVERT CITY, KY 42029 MARSHALL COUNTY
 HWY. 1523

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 02/06/81
 PERMIT NO. KY 149 ESTIMATED DATE OF START-UP-- 1982
 DETERMINATION MADE BY KENTUCKY DAPC (502)-564-3382
 (AGENCY) (PHONE)
 BILL DILLS
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
 EDC/VCM MANUFACTURING 81000.00 LB/H EDC VC 10.0000 PPM INCINERATOR ... PCT EFF
 NOX 0.2300 LB/H-STU FIREBOX DESIGN/LIM. EXCESS AIR

NOTES -----
 BASED ON NESHAP. ALSO PERMIT #C-80-88.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983 02/13/1984
 ID NUMBER KY-0014 SOURCE TYPE CODE 6.59
 PAGE 6- 683

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE VINYL CHLORIDE/POLYVINYL CHLORIDE 404.00 HMLB/YR PVC

COMPANY NAME/SITE LOCATION B.F. GOODRICH CHEMICAL RT 130 -- PORCUPINE RD. PEDRICKTOWN, NJ 08067 SALEH COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. PERMIT NO. DATE OF PERMIT ISSUANCE-- 07/25/80 ESTIMATED DATE OF START-UP-- 1981 DETERMINATION MADE BY LARRY KAPAS (212)-264-9538 (PHONE) (AGENCY CONTACT PERSON) ... & BASIS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS MONITOR RECOVERY

REACTOR OPENING LOSS VC 10.0000 PPM SOLVENT ABSORB. SYS/BACKUP INCIN.

DISPERSION LINE RESIN VC 0.0200 G/KG STEAM STRIPPING CLOSED POLYTECHNOLOGY

DRYER FACILITY VC 1350.0000 PPM/YR AV 2000.0000 PPM/YR AV STEAM STRIPPING

RELIEF VALVE DISCHARGE PM 0.0200 GR/SCF BAGHOUSE SIP

COMPUTER REACTION CONTROLLER VC

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP REVIEW STATUS: 04/01/1983 ID NUMBER NJ-0005 SOURCE TYPE CODE 6.59

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE

VINYL CHLORIDE/POLYVINYL CHLORIDE

404.00 MTLB/YR

COMPANY NAME/SITE LOCATION B.F. GOCORICH CHEMICAL

PEDRICKTOWN, NJ

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO.

DETERMINATION MADE BY EPA REGION II (AGENCY)

DATE OF PERMIT ISSUANCE-- 10/06/82
ESTIMATED DATE OF START-UP--
(609)-264-2611
(PHONE)

PETER FLYNN
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

SUSPENSION RESIN PRODUCTION LINE 260.00 MTLB/YR

POLLUTANT
EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

VC 400.0000 PPM DAILY AV
25.0000 PPM, ANNUAL AVG
STEAM STRIPPING

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER NJ-0005A

SOURCE TYPE CODE 6.59

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE VINYL CHLORIDE/POLYVINYL CHLORIDE 275000.00 T/YR
 COMPANY NAME/SITE LOCATION B.F. GOODRICH CO. CALVERT CITY, KY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. C-82-65
 DETERMINATION MADE BY KENTUCKY EPA (AGENCY)
 BILL DILLS (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 05/27/82
 ESTIMATED DATE OF START-UP-- 1983
 (502)-564-3382 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FLUID BED DRYERS, 2	100000.00 LB/H	PM	4.4800 LB/H 18.7400 T/YR NET SCRUBBER	BACT 99.90
PVC STORAGE SILOS, 4	438000.00 T/YR	PM	1.8400 LB/H 2.5900 T/YR BAG FILTERS	BACT
BULK PVC STORAGE SILOS, 8	584000.00 T/YR	PM	4.2900 LB/H 1.5900 T/YR BAG FILTERS	BACT
REACTOR OPENING VENT	275000.00 T/YR	VCM	20.0000 LB/THLB PVC	BACT
BLEND TANKS, 3		VCM	0.0400 LB/H 27.5000 T/YR	BACT
PLANT FUGITIVES		VCM	27.5000 T/YR	

NOTES -----
 INCINERATOR NOT LISTED UNDER PERMIT # C-82-65.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983 02/13/1984
 ID NUMBER KY-0021
 SOURCE TYPE CODE 6.59
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE VINYL CHLORIDE/POLYVINYL CHLORIDE 957.00 MT/YR
 COMPANY NAME/SITE LOCATION FORMOSA PLASTICS POINT COMFORT, TX CALHOUN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. (REGION FILE NO.) P30-TX-226 DATE OF PERMIT ISSUANCE-- 11/18/81
 DETERMINATION MADE BY EPA REGION VI ESTIMATED DATE OF START-UP--
 (AGENCY) (PHONE) TOM DIGGS (214)-767-1594
 (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, 5 EA	80.00 MMBTU/H	NOX	0.1100 LB/MMBTU	LOW NOX BURNERS	BACT
		VOC	0.0029 LB/MMBTU	FLUE GAS O2 CONTROL	BACT
HEATERS, 2	21.00 MMBTU/H EA	NOX	0.1800 LB/MMBTU	LOW NOX BURNERS	BACT
		VOC	0.0040 LB/MMBTU	FLUE GAS O2 CONTROL	BACT
INCIN., 2	22.00 MMBTU/H EA	NOX	0.1200 LB/MMBTU	LOW NOX BURNERS	BACT
		VOC	0.0200 LB/MMBTU	FLUE GAS O2 CONTROL	BACT
EPC CRACKERS	57.00 MMBTU/H	NOX	0.1500 LB/MMBTU	LOW NOX BURNERS	BACT
		VOC	0.0029 LB/MMBTU	FLUE GAS O2 CONTROL	BACT
PVC DRYERS		VOC	21.0000 LB/H	400 PPM VCM IN PVC SLURRY	BACT
COOLING TOWER					

(*) INDICATES DATUM WAS TRUNCATED IN THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 6.59

ID NUMBER TX-0048

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(CONTINUED) FORMOSA PLASTICS

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
VALVES		VOC	0.1800 LB/H SAMPL. H2O FOR VCM/SPPB HC LIM	BACT
FLANGES		VOC	2.1000 LB/H MAINTENANCE PROGRAM	BACT
PUMPS		VOC	2.1400 LB/H MAINTENANCE PROGRAM	BACT
COMPRESSOR		VOC	0.1400 LB/H DOUB. MECH. SEALS & INCIN	BACT
STARTUP/SHUTDOWN		VOC	0.0900 LB/H DOUB. MECH. SEALS & INCIN	BACT
WATER TREATMENT		VOC	0.1100 LB/H COMPLIANCE FROM NESHAPS	BACT
GAS HOLDER I		VOC	0.1100 LB/H STEAM STRIP WASTEWATER	BACT
GAS HOLDER II		VOC	0.0400 LB/H PURGE TO BOILER/INCIN	BACT
		VOC	0.0020 LB/H PURGE TO BOILER/INCIN	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

=====

ID NUMBER TX-0048

SOURCE TYPE CODE 6.59

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE

VINYL CHLORIDE/POLYVINYL CHLORIDE

350.00 MT/YR

COMPANY NAME/SITE LOCATION

SHINTECH, INC.
5618 HIGHWAY 352 EAST

FREEPORT, TX 77541

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. (REGION FILE NO.) PSD-TX-327

DETERMINATION MADE BY EPA REGION VI

(AGENCY)

JOE WINKLER

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/05/81

ESTIMATED DATE OF START-UP--

(214)-767-1594

(PHONE)

PROCESSES SUBJECT

TO THIS PERMIT

THROUGHPUT

CAPACITY

POLLUTANT

EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS

... PCT EFF

STEAM BOILER

55.00 MMBTU/H

NOX

0.1200 LB/MMBTU

LOW NOX BURNERS

BACT

STEAM BOILER

55.00 MMBTU/H

NOX

0.1200 LB/MMBTU

LOW NOX BURNERS

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

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ID NUMBER TX-0079A

SOURCE TYPE CODE 6.59

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE VINYL CHLORIDE/POLYVINYL CHLORIDE 350.00 MT/YR
 COMPANY NAME/SITE LOCATION SHINTECH, INC.
 5618 HWY 352 EAST
 FREEPORT, TX 77541
 BRAZORIA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. PSD-TX-285
 DETERMINATION MADE BY EPA REGION VI
 (AGENCY)
 JOHN BUNYAK
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 03/17/80
 ESTIMATED DATE OF START-UP-- 1981
 (214)-767-1594
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DRYER STACKS, 2		PM	1.8000 LB/H EA	
REACTOR VENT FAN		PM		
PNEUMATIC VENTS, 7		PM	1.0600 LB/H EA	
INCIN. STACKS, 2		PM		
BOILER, 2	55.00 MMBTU/H EA	PM	0.3000 LB/H	
FUGITIVE EMISSIONS		PM		

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 06/01/1983
 ID NUMBER TX-0079
 SOURCE TYPE CODE 6.59
 PAGE G- 690

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

10.00 M³ GAL/YR

ALCOHOL FUEL PRODUCTION

SOURCE TYPE/SIZE

HASTINGS, NE

COMPANY NAME/SITE LOCATION ADC-I, LIMITED

DATE OF PERMIT ISSUANCE-- 09/22/83
ESTIMATED DATE OF START-UP-- 1984
(402)-471-2189
(PHONE)

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY NEBRASKA DEC
(AGENCY)

GENE ROBINSON
(AGENCY CONTACT PERSON)

... & BASIS

CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

POLLUTANT
EMITTED

THROUGHPUT
CAPACITY

PROCESSES SUBJECT
TO THIS PERMIT

100.00 M³ BTU/H

BOILER, COAL FIRED

0.0300 LB/M³ BTU

FABRIC FILTER

1.2000 LB/M³ BTU

LOW SULFUR FUEL

0.5000 LB/M³ BTU

BOILER DESIGN & OPERATION

99.00

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

SOURCE TYPE CODE 6.61

ID NUMBER NE-0006

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ALCOHOL FUEL PRODUCTION

COMPANY NAME/SITE LOCATION AGRIFUELS REFINING CORP.

NEW IBERIA, LA

IBERIA PARISH

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. PSD-LA-521

DETERMINATION MADE BY

LAQD/EPA REGION VI
(AGENCY)

BHARAT CONTRACTOR
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/11/84
ESTIMATED DATE OF START-UP--
(504)-342-8340
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

BOILER, CHS, #7-84

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

177.00 HHBTU/H

PM 35.0000 LB/H
140.0000 T/YR
ESP

NOX 63.0000 LB/H
252.0000 T/YR
LOW NOX BURNER

CO 1163.0000 LB/H
4650.0000 T/YR
O2 MONITOR & LOW FLAME TEMP.

VE 20.0000 % OPACITY
CONTINUOUS O2 MONITOR
PARTICULATE CONTROL

99.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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REVIEW STATUS: INITIAL REVIEW POST STARTUP

ID NUMBER LA-0050

SOURCE TYPE CODE 6.61

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ALCOHOL FUEL PRODUCTION
 COMPANY NAME/SITE LOCATION AM. MODERN FOOD ENERGY SYS

40.00 MMGAL/YR

AMES, IA

STORY COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO.
 DETERMINATION MADE BY EPA REGION VII
 (AGENCY)

DANIEL RODRIGUEZ
 (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/15/81
 ESTIMATED DATE OF START-UP--
 (816)-374-6525
 (PHONE)

PROCESSES SUBJECT
 TO THIS PERMIT

THROUGHPUT
 CAPACITY

POLLUTANT
 EMITTED

EMISSION LIMITS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
 ... PCT EFF

BOILER, PULV. COAL

150.00 MMBTU/H

SO2

2.0000 LB/MMBTU

LOW SULFUR WESTERN COAL

BACT

NOX

0.7000 LB/MMBTU

LOW EXCESS AIR, STAGED BURN

BACT

PM

0.0300 LB/MMBTU

FABRIC FILTER

NOTE

BOILER, OIL/GAS, 2 EA

94.50 MMBTU/H

SO2

0.5000 LB/MMBTU

#2 FUEL OIL (IF NO NAT. GAS)

BACT

NOX

0.2500 LB/MMBTU OIL

0.2000 LB/MMBTU NAT GAS

BACT

PM

0.0300 LB/MMBTU

FABRIC FILTER

NOTE

MISCELLANEOUS BAGHOUSES

PM 0.0011 G/SCF

NOTES

THE PLANT'S STEAM PRODUCTION CAPACITY IS 275000 LB/HR. THE PERMITS LIMITS STEAM PROD. TO 165000 LB/HR. BECAUSE APPFES'S MODELING STUDIES WERE BASED ON THIS LEVEL OF OPERATION. THE PM LIMITS ARE NOT BACT. THE LIMITS WERE IMPOSED BECAUSE THE APPLICANT BASED A PM NON-APPLICABILITY DETERMINATION ON THIS EMISSION RATE. PERMIT AMENDED 05/15/81.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1993

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ID NUMBER IA-0003

SOURCE TYPE CODE 6.61

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ALCOHOL FUEL PRODUCTION

COMPANY NAME/SITE LOCATION ARCHER DANIELS MIDLAND

PEORIA, IL

PEORIA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 81 07 0035
DETERMINATION MADE BY

ILLINOIS EPA
(AGENCY)

CHRIS ROMAIN
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/28/82
ESTIMATED DATE OF START-UP-- 1982
(217)-762-2113
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

BOILER, NAT. GAS FIRED

THROUGHPUT
CAPACITY

90.00 MMBTU/H

POLLUTANT
EMITTED

NOX

0.1700 LB/MMBTU
EQUIPMENT DESIGN

BYPRODUCT DRYER

30.00 T/H

NOX

0.1600 LB/MMBTU
EQUIPMENT DESIGN

... & BASIS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 04/04/1984

ID NUMBER IL-0020

SOURCE TYPE CODE 6.61

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ALCOHOL FUEL PRODUCTION 15.60 MMGAL/YR

COMPANY NAME/SITE LOCATION CIRCLE ENERGIES CORP.

NE

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY NEBRASKA DEC
(AGENCY)

GENE ROBINSON
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/22/85
ESTIMATED DATE OF START-UP-- 1985
(402)-471-2189
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY EMISSION LIMITS POLLUTANT EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

BOILER, 2 COAL FIRED, EA 50.00 MMBTU/H

PM 0.0500 LB/MMBTU INPUT
S02 1.1600 LB/MMBTU INPUT
NOX 0.5000 LB/MMBTU INPUT
FABRIC FILTER
LOW S FUEL
BOILER DESIGN & OPERATION

99.00

FERMENTER & CENTRIFUGES VENTS

VOC PACKER SCRUBBER

95.00

PROCESS VOC SOURCES 15.60 MMGAL/YR

BEN*
VOC SEE NOTES
SEE NOTES

NOTE
NOTE

NOTES --- , VOC - NSPS, SUBPARTS VV & WHEN PROMULGATED SUBPARTS KB & NNN, BENZENE - NESHA, SUBPART J WHEN PROMULGATED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

PAGE 6- 695

ID NUMBER NE-0007

SOURCE TYPE CODE 6.61

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

ALCOHOL FUEL PRODUCTION

10.20 MMGAL/YR

COMPANY NAME/SITE LOCATION CONSOLIDATED ENERGY GROUP, LTD.

GOMRIE, IA

WEBSTER COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

DATE OF PERMIT ISSUANCE-- 11/13/81
ESTIMATED DATE OF START-UP--
(816)-374-6525
(PHONE)

CHARLES WHITMORE
(AGENCY CONTACT PERSON)

EPA REGION VII
(AGENCY)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

BOILER, COAL FIRED, STOKER

113.00 MMBTU/H

SO2 2.0000 LB/MMBTU
LOW SULFUR COAL

NOX 0.6000 LB/MMBTU

PM 0.0300 LB/MMBTU
14.9000 T/YR
DESIGN FEATURES
STAGED COMBUST. STOKER FEEDER
BAGHOUSE

BACT

BACT

BACT

COAL HANDLING

PM 1.1200 T/YR
DUST SUPPRESSANT

BACT

GRAIN HANDLING

PM 4.2200 T/YR
FABRIC FILTER

BACT

DOGS VENT

PM 35.0400 T/YR
EXPANSION CHAMBER

BACT

ENTIRE FACILITY

VOC 115.0000 T/YR
SCRUBBERS, FLOATING ROOF

BACT

NOTES -----

8760 HOURS/YR OPERATION

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER IA-0005

SOURCE TYPE CODE 6.61

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ALCOHOL FUEL PRODUCTION

COMPANY NAME/SITE LOCATION KENTUCKY AGRICULTURAL ENERGY CORP.

FRANKLIN, KY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. C-84-44

DETERMINATION MADE BY KENTUCKY DAPC

(AGENCY)

ROGER COOK

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/13/84

ESTIMATED DATE OF START-UP--

(502)-564-3382

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

BOILER, FLUIDIZED BED, COAL FIR* 155.40 MBTU/H

PH 10.0000 LB/H

BAGHOUSE & CYCLONE

99.50

SO2 1.2000 LB/H*BTU

LIMESTONE FLUIDIZED BED

80.00

NOX 0.5000 LB/H*BTU

BOILER DESIGN

DRYING, SPENT GRAIN

21.35 T/H

PH SEE NOTE

SO2 SEE NOTE

NOX SEE NOTE

NOTES

NOTE --- DETERMINATION LISTED THE TWO PROCESSES, BOILER & DRYER, TOGETHER NOT SEPARATING OUT THE CONTRIBUTION OF EACH DEVICE TO THE TOTAL EMISSIONS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

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ID NUMBER KY-0042

SOURCE TYPE CODE 6.61

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ALCOHOL FUEL PRODUCTION 23.00 MMGAL/YR ETHENOL
 COMPANY NAME/SITE LOCATION MAPEE ALCOHOL FUEL, INC. CACTUS, TX MOORE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. (REGION FILE NO.) PSD-TX-374
 DETERMINATION MADE BY EPA REGION VI
 (AGENCY)
 TOM DIGGS
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 03/27/81
 ESTIMATED DATE OF START-UP--
 (214)-767-1594
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PROCESS STM GEN, COAL FIRED	174.10 MMBTU/H				
		PM	0.0370 LB/MMBTU	FABRIC FILTERS	BACT
		NOX	0.7000 LB/MMBTU	LOW EXCESS AIR	BACT
		SO2	0.6800 LB/MMBTU	LOW SULFUR COAL	BACT
AUXILIARY BOILER, NAT. GAS	35.00 MMBTU/H				
		PM	0.0100 LB/MMBTU	USE OF NAT. GAS FUEL	BACT
		NOX	0.0006 LB/MMBTU	LOW EXCESS AIR	BACT
		SO2	0.0006 LB/MMBTU	USE CF NAT. GAS FUEL	BACT
DRYERS, 2 NAT. GAS FIRED	31.40 MMBTU/H EA				
		PM	0.1800 LB/MMBTU	2 CYCLOPONES IN SERIES	BACT
		NOX	0.1100 LB/MMBTU	LOW EXCESS AIR	BACT
		SO2	0.0006 LB/MMBTU	USE OF NATURAL GAS AS FUEL	BACT
3 GRAIN CONVERGING POINTS					
		PM	0.0030 LB/H EA	BAG FILTERS	BACT
					99.90

(*) INDICATES DATUM HAS TRUNCATED FOR THIS TABLE.
 ID NUMBER TX-0024
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 SOURCE TYPE CODE 6.61

(CONTINUED) MAPEE ALCOHOL FUEL, INC.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TRANSFER OF MILO		PM	0.0440 LB/H BAG FILTERS	BACT 99.90
MILO INLOADING & HANDLING		PM	0.8800 LB/H BAG FILTERS	BACT 99.90
GRAIN CONVEY, STORAGE TO TRUCK		PM	0.0200 LB/H BAG FILTERS	BACT 99.90
GRAIN PELLET CONVEY TO RR CAR		PM	0.0980 LB/H CYCLONE	BACT 99.50
GRAIN PELLET CONVEY TO COOLER		PM	0.2300 LB/H CYCLONE	BACT 99.50
4 MILLING OF MILO POINTS		PM	1.1000 LB/H EA BAG FILTER	BACT 99.90
2 TRANSFER OF MILO POINTS		PM	0.1600 LB/H EA BAG FILTER	CACT 99.90
2 H2SO4 STORAGE TANKS		SO2	0.0400 LB/H EA SINGLE VENT W/DESICCATOR	BACT
TRUCK LOADING OF BOILER ASH		PM	6.3000 LB/H BAG FILTER	BACT 99.50
TRANSFER OF ASH		PM	0.3200 LB/H BAG FILTER	BACT 99.50
COAL UNLOAD		PM	0.3000 LB/H BAG FILTER	BACT 99.90
COAL HANDLING #1		PM	0.6000 LB/H BAG FILTER	BACT 99.90
COAL HANDLING #2		PM	0.0520 LB/H BAG FILTER	BACT 99.90

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER TX-0024

SOURCE TYPE CODE 6.61

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ALCOHOL FUEL PRODUCTION

COMPANY NAME/SITE LOCATION MIDWEST SOLVENTS

PEKIN, IL

DETERMINATION IS B/L FOR A NEW SOURCE.

PERMIT NO. 82 10 0034

DETERMINATION MADE BY ILLINOIS EPA

(AGENCY)

CHRIS ROMAINE

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/17/83

ESTIMATED DATE OF START-UP-- 1984

(217)-789-2113

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

BOILER, FLUIDIZED BED

170.00 MMBTU/H

PM

0.0300 LB/MMBTU

FABRIC FILTER

1.2000 LB/MMBTU 300 AV

85.0000 % REDUCTION

FLUIDIZED LIMESTONE BED

0.6000 LB/MMBTU

EQUIPMENT DESIGN

SEE NOTE

EQUIPMENT DESIGN

ASH HANDLING

PM

0.0300 GR/DSCF

FABRIC FILTER

FUGITIVE EMISSIONS

PM

ROUTINE CONTROL MEASURES

NOTES

NOTE - ALSO STATE ID NUMBER 179 060 AAD. PM - PROJECT NOT A MAJOR MODIFICATION FOR PM. EMISSION CONDITIONED TO BELOW SIP. CO - CO EMISSION LIMIT TO BE SET BASED UPON RESULTS OF TRIAL OPERATION.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP

REVIEW STATUS: 08/21/1984

ID NUMBER IL-0026

SOURCE TYPE CODE 6.61

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

10.00 MMGAL/YR

ALCOHOL FUEL PRODUCTION

SOURCE TYPE/SIZE

NEBRASKA ALCOHOL FUEL CORP.
84TH & FLETCHER

LINCOLN, NE

COMPANY NAME/SITE LOCATION

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO.

DETERMINATION MADE BY

GENE ROBINSON
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/21/82
ESTIMATED DATE OF START-UP--
(402)-471-2189
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

BOILER

66.35 MTBTU/H

SO2

1.1600 LB/MTBTU

LOW S FUEL

PM

0.0500 LB/MTBTU

FABRIC FILTER

NOX

0.5000 LB/MTBTU

BOILER DESIGN

99.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER NE-0005

SOURCE TYPE CODE 6.61

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ALCOHOL FUEL PRODUCTION

COMPANY NAME/SITE LOCATION NEW ENERGY CORP.

SOUTH BEND, IN

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. EPA-5-A-82-1

DETERMINATION MADE BY EPA REGION V (AGENCY)

BONIFACE THAYIL (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/03/81
ESTIMATED DATE OF START-UP-- 1984
(312)-866-6054 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT
COAL-FIRED BOILER

THROUGHPUT CAPACITY
342.60 MMBTU/H

POLLUTANT EMISSION LIMITS
EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

SO2 1.2000 LB/MMBTU 3H AV
NOX 0.75% Sulfur Coal
PM 0.7000 LB/MMBTU
0.0300 LB/MMBTU
BAGHOUSE

LAER
99.70

OIL-FIRED BOILER
176.00 MMBTU/H

SO2 0.3100 LB/MMBTU
PM MAX 0.3% Sulfur Oil
NOX 0.0200 LB/MMBTU
0.6000 LB/MMBTU

LAER

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER IN-0001

SOURCE TYPE CODE 6.61

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ALCOHOL FUEL PRODUCTION

25.00 MMGAL/YR

COMPANY NAME/SITE LOCATION NEW ENGLAND ETHANOL, INC.

AUBURN, ME

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 2191

MAINE DEP
(AGENCY)

ROBERT BALLEW
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/10/83
ESTIMATED DATE OF START-UP-- 1986
(207)-289-2437
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

POLLUTANT
EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

BOILER, COAL

175.00 MMBTU/H

SO2 1.8000 LB/MMBTU

MAX 1.2% S CONTENT BY WT

NOX 0.7000 LB/MMBTU 2H AV

PM 0.0800 LB/MMBTU

BAGHOUSE

OPACITY MONITOR, O2, & CO MONITORS

BOILER, NO. 2 OIL

175.00 MMBTU/H

SO2

PM

COAL HANDLING

NO. 2 FUEL

NO. 2 FUEL / OPACITY, CO, & O2 MONITORS

ASH HANDLING

BAGHOUSE ON SILO

SURFACTANT COATED, ENCLOSED HANDLING

ROADS & PARKING

BAGHOUSE ON VENT

3 DAY STORAGE SILO, H2O ADDED FOR TRANSPORT

TRUCK & RAIL TRANSFER, ETHANOL

PM

AREA PAVED, VEGETATED, OR COVERED

VOC

VAPOR RECOVERY

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS:

INITIAL REVIEW POST STARTUP

PAGE G- 703

ID NUMBER ME-0006

SOURCE TYPE CODE 6.61

(CONTINUED) NEW ENGLAND ETHANOL, INC.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STORAGE TANK, ETHANOL		VOC	VAPOR RECOVERY	BACT 95.00
STORAGE TANK, CYCLOHEXANE		VOC	VAPOR RECOVERY	BACT 95.00
STORAGE TANK, ALDEHYDE		VOC	VAPOR RECOVERY	BACT 95.00
STORAGE TANK, OIL		VOC	VAPOR RECOVERY	BACT 95.00
STORAGE TANK, GASOLINE & DIESEL		VOC	VAPOR RECOVERY	BACT 95.00
DRYER, GRAIN & SOLUBLES, DDGS		PM	4.0000 LB/H BAGHOUSE	BACT 99.90
MATERIAL HANDLING, CORN UNLOADING*		PM	NEG. PRESSURE BAGHOUSE	BACT 99.90
MATERIAL HANDLING, CORN CONVEYING*		PM	BAGHOUSE	BACT 99.90
MATERIAL HANDLING, CORN CLEANING		PM	BAGHOUSE	BACT 99.90

NOTES -----

NO. 2 OIL BOILER IS BACK UP FOR COAL BOILER. COMBINED FIRING RATE AT ANY ONE TIME SHALL NOT EXCEED 175 MMBTU. THE COAL BOILER SHALL BE CAPABLE OF MEETING 0.080 LB/MMBTU PM WITH ONE MODULE OFF LINE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS:

SOURCE TYPE CODE 6.61

ID NUMBER HE-0006

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ALCOHOL FUEL PRODUCTION

COMPANY NAME/SITE LOCATION PEAT METHANOL ASSOCIATES

NEAR CRESWELL, NC

WASHINGTON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 4930

DETERMINATION MADE BY

NORTH CAROLINA DEM
(AGENCY)

MIKE SEWELL
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/07/82
ESTIMATED DATE OF START-UP-- 1985
(919)-733-6126
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

PEAT DRYER

THROUGHPUT
CAPACITY

52.50 MBTU/H

POLLUTANT
EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

PM

3.2000 LB/H

CYCLONE/ESP

SO2

10.7000 LB/H

0.2000 LB/MBTU

.26% LOW S PEAT

98.80

PEAT BOILER

300.00 MBTU/H

PM

9.7000 LB/H

0.0330 LB/MBTU

BAGFILTER

SO2

153.0000 LB/H

0.5100 LB/MBTU

.26% LOW S PEAT

98.00

SULFUR RECOVERY

SO2

23.0000 LB/H

CLAUS/SCOT PLANT

99.90

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER NC-0024

SOURCE TYPE CODE 6.61

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE ALCOHOL FUEL PRODUCTION 20.00 MMGAL/YR

COMPANY NAME/SITE LOCATION ROCK ISLAND LIQUID FUELS, INC. ROCK ISLAND, IL ROCK ISLAND COUNTY

DETERMINATION IS FOR A NEW SOURCE.
 PERMIT NO. 01100017
 DETERMINATION MADE BY ILLINOIS EPA (AGENCY)
 CHRIS ROMAINE (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 02/01/82
 ESTIMATED DATE OF START-UP-- 1983
 (217)-762-2113 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY EMISSION LIMITS ... & BASIS
 GRAIN HANDLING & STORAGE 8.00 MMBU/YR CORN PH 4.5300 LB/H CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
 DISTILLATION ETHANOL STORAGE VOC 2.1800 LB/H SIP

NOTES -----
 NON-MAJOR PROJECT DEEMED CONTROVERSIAL DUE TO PUBLIC INTEREST. PUBLIC HEARING HELD.

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION ADVANCE RESEARCH CHEMICALS, INC.

BROKEN ARROW, OK

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. T84-13

DETERMINATION MADE BY

TULSA CITY-COUNTY HEALTH DEPT J. VAN SANDT
(AGENCY) (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/14/84
ESTIMATED DATE OF START-UP-- 1984
(918)-744-1000
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

REACTORS, BATCH, METALLIC HALID* 30000.00 LB/YR

F

40.0000 LB/YR

SCRUBBERS

WATER & KOH

PM

1.0000 T/YR

99.90

NOTES

PERMIT MAX LIMITS SET AT 100 LB/YR HALIDE GAS EMISSIONS & 75000 LB/YR PRODUCT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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REVIEW STATUS: INITIAL REVIEW POST STARTUP

ID NUMBER OK-0020

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION AEROJET STRATEGIC PROPULSION

, CA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 7542

DETERMINATION MADE BY SACRAMENTO APCD

(AGENCY)

ROBERT KNIGHT

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/01/83

ESTIMATED DATE OF START-UP--

(916)-366-2107

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS

... & BASIS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... PCT EFF

CHEMICAL PROCESS

VOC

16.5000 LB/D

CARBON ADSORBER

98.00

NOTES -----
NOT NSR BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

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ID NUMBER CA-0072

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION AIR PRODUCTS & CHEMICALS, INC.

NEW ORLEANS, LA

ORLEANS PARISH

DETERMINATION IS
PERMIT NO. PSD-LA-515
DETERMINATION MADE BY

LAQD/EPA REGION VI
(AGENCY)

BHARAT CONTRACTOR
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/20/84
ESTIMATED DATE OF START-UP-- 1984
(504)-342-8940
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

TURBINE/BOILER, N.G./WASTE HEAT 203.00 MMBTU/H

NOX 172.0000 LB/H
753.0000 T/YR

B/N

NOX 217.0000 PPH
COMBUSTOR DESIGN

B/N

VE NO VISIBLE EMISSION
COMBUSTOR DESIGN

NOTES
SUBJECT TO NSPS, SUBPART GG

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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REVIEW STATUS: INITIAL REVIEW POST STARTUP

ID NUMBER LA-0049

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL
 COMPANY NAME/SITE LOCATION AIR PRODUCTS & CHEMICALS, INC. GEISHAR, LA ASCENSION PARISH

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. PSD-LA-519
 DETERMINATION MADE BY LAQD/EPA REGION VI (AGENCY)
 BHARAT CONTRACTOR (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 07/20/84
 ESTIMATED DATE OF START-UP-- 1985
 (504)-342-8940 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY
 REFORMER STACK 127.00 MMBTU/H

POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
NOX	28.2000 LB/H 124.0000 T/YR	BACT
VE	10.0000 % OPACITY LOW NOX BURNERS	
NOX	1.1000 LB/H	BACT
VE	NO VISIBLE EMISSION	

FLARE

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 ID NUMBER LA-0052
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS:
 SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

88000.00 T/YR

COMPANY NAME/SITE LOCATION AIRCO CARBIDE, DIV. OF AIRCO, INC.

CALVERT CITY, KY

DETERMINATION IS FOR A NEW SOURCE.

PERMIT NO. C-60-28
DETERMINATION MADE BY

KENTUCKY DAPC
(AGENCY)

BILL DILLS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/06/80
ESTIMATED DATE OF START-UP-- 1981
(502)-564-3382
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

ELECTRIC ARC FURNACE 88000.00 T/YR

POLLUTANT
EMITTED

... & BASIS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

PM

PROCESS LIMITED

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER KY-0022

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 02/13/1984

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

15900.00 T/YR

COMPANY NAME/SITE LOCATION AIRCO SPEER

ST. MARY'S, PA

ELK COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 80PA06

DETERMINATION MADE BY

EPA REGION III
(AGENCY)

VERNON BUTLER
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/20/81
ESTIMATED DATE OF START-UP-- 1981
(215)-597-2711
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

GRAPHITIZING FURNACE

15.90 MT/YR

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

PM	18.3000 LB/H	BACT
INCINERATION (AFTER BURNER)		
SO2	30.5000 LB/H	BACT
CO	545.0000 LB/H	BACT
H2S	5.3000 LB/H	BACT
SO2	55.5000 LB/H	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER PA-0009

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION AIRCO SPEER

ST. MARY'S, PA

ELK COUNTY

DETERMINATION IS FOR A NEW SOURCE.

PERMIT NO. 79-PA-26

DETERMINATION MADE BY

EPA REGION III
(AGENCY)

DATE OF PERMIT ISSUANCE-- 08/15/80
ESTIMATED DATE OF START-UP-- 1980
(215)-597-2711
(PHONE)

VERNON BUTLER
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

COKE BURNING KILN, 2

THROUGHPUT
CAPACITY

75.00 MLB/H

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

PM 1.7400 LB/H

BAGHOUSE/INCINERATOR

SO2 0.4400 LB/H

% SULFUR IN COKE

CO 0.0800 LB/H

KILN, 2

75.00 MLB/H

PM 1.7400 LB/H

BAGHOUSE/INCINERATOR

SO2 0.4400 LB/H

% SULFUR IN COKE

CO 0.0800 LB/H

BACT
99.80

BACT

BACT

BACT

BACT

BACT

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER PA-0008

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION AIRCO SPEER CARBON GRAPHITE

, LA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. LA-283
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/05/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DUST COLLECTOR Q.C. & I. LAB.		PM	0.2100 LB/H BAGFILTERS	BACT 99.00
DUST COLLECTOR, MAINTENANCE AND*		PM	0.1300 LB/H BAGFILTERS	BACT 99.00
DUST COLLECTOR, PROCESS MATERIAL*	3.10 MMBTU/H	PM	1.2900 LB/H BAGFILTER	BACT 99.80
		CO	0.0500 LB/H NONE	BACT
DUST COLLECTOR, PROCESS MATERIAL*		PM	1.0300 LB/H BAGFILTER	BACT 99.90
SILLO VENT FILTER, PROCESS MATERIAL*		PM	0.0700 LB/H EA BAGFILTER	BACT 99.90
DUST COLLECTOR, FINISHING & SHI*		PM	1.2900 LB/H BAGFILTER	BACT 99.80
CONDENSER, PRIMARY PITCH TANKS *		PM	0.0400 LB/H EA CONDENSER VAPOR RECOVERY	BACT 99.00
PREHEATER COMBUSTION STACKS P.I*	0.40 MMBTU/H EA	PM	TRACE EA NONE	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER LA-0016

SOURCE TYPE CODE 6.62

(CONTINUED) AIRCO SPEER CARBON GRAPHITE

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
		SO2	TRACE EA NONE	BACT
		CO	TRACE EA NONE	BACT
		H2S	TRACE EA NONE	BACT
CONDENSER, SECONDARY PITCH TANK*		PM	0.0100 LB/H EA VAPOR RECOVERY	BACT 99.00
DUST COLLECTOR MILL, MIX AND EX*		PM	1.3700 LB/H EA BAGFILTER	BACT 99.80
DUST COLLECTOR MILL, MIX AND EX*		PM	0.6900 LB/H BAGFILTER	BACT 99.80
SILO VENT FILTER MILL, MIX & EX*		PM	0.0500 LB/H EA BAGFILTER	BACT 99.00
CONDENSER, PRIMARY PITCH TANK MI*		PM	0.0400 LB/H EA VAPOR RECOVERY	BACT 99.00
CONDENSER PRIMARY TAR TANK MILL*		PM	0.0500 LB/H ...FOR RECOVERY	BACT 99.00
SCRAP CRUSHINGS		PM	1.3700 LB/H BAGFILTER	BACT 99.80
LOAD - UNLOAD		PM	0.6900 LB/H BAGFILTER	BACT 99.80
LOAD - UNLOAD, 4		PM	1.3700 LB/H EA BAGFILTER	BACT 99.80
CARBOTTOM BAKING, 4	136.00 MMBTU/H EA	PM	17.8000 LB/H EA INCIN.	BACT
		SO2	45.1300 LB/H EA 0.7% S OIL	BACT
		CO	0.4700 LB/H EA NONE	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

(CONTINUED) AIRCO SPEER CARBON GRAPHITE

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SIDEBLOCK MFG.		PM	1.3700 LB/H BAGFILTER	BACT 99.70
SILO VENT FILTER GRAPHITIZING, *		PM	0.0700 LB/H EA BAGFILTER	BACT 99.00
MONITOR GRAPHITIZING, 4		PM	18.5000 LB/H EA NONE	BACT
		SO2	44.3100 LB/H EA 0.8% S COKE & ELECTRODES	BACT
		CO	1348.3000 LB/H NONE	BACT
		H2S	46.0600 LB/H EA 0.8% S COKE & ELECTRODES	BACT
STACK GRAPHITIZING, 4		SO2	81.0900 LB/H EA 0.8% S COKE & ELECTRODES	BACT
		CO	6.6500 LB/H EA NONE	BACT
		H2S	15.3500 LB/H EA 0.8% S COKE & ELECTRODES	BACT
CALCINER BOILER, GAS, OIL	56.20 MTBTU/H	PM	5.7000 LB/H NONE	BACT
		SO2	171.6000 LB/H 0.7% S OIL	BACT
		CO	5.7000 LB/H WASTE HEAT BOILERS	BACT
COKER, OIL/GAS	71.60 MTBTU/H	PM	4.4000 LB/H NONE	BACT
		SO2	62.8600 LB/H 0.7% S OIL	BACT
		CO	2.2000 LB/H WASTE HEAT BOILER	BACT
FURNACE, NAT. GAS	2.20 MTBTU/H	PM	0.1100 LB/H NONE	BACT
		SO2	0.6300 LB/H NONE	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
ID NUMBER LA-0016
SOURCE TYPE CODE 6.62

(CONTINUED) AIRCO SPEER CARBON GRAPHITE

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				

CO	0.1100 LB/H	BACT
	NONE	

NOTES

MFG GRAPHITE ELECTRODES FOR USE IN ELECTRIC ARC FURNACES FOR THE STEEL INDUSTRY. RAW MATERIALS INCLUDE: LIQUID PITCH, OIL, NAT
URAL GAS, BINDERS, SAND, & VARIOUS ADITIVES. TRACE EQUALS LESS THAN 0.01 LB/HR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER LA-0016 SOURCE TYPE CODE 5.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION ALLIED CHEMICAL

SCOTLANDVILLE, LA

EAST BATON ROUGE PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-104
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

TOM DIGGS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/21/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY
131.00 MMBTU/H

POLLUTANT
EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

BOILER

PH	0.0015 LB/MMBTU	BACT
SO2	LIMESTONE SCRUBBER	99.00 BACT
NOX	0.0740 LB/MMBTU	
	LOW SULFUR OIL (.7 %)	
	0.3000 LB/MMBTU	BACT
	LOW EXCESS AIR	
VOC	0.0064 LB/MMBTU	BACT
	EFFICIENT COMBUSTION	

REGENERATION HEATER

4.00 MMBTU/H

PH	0.0173 LB/MMBTU	BACT
SO2	EFFICIENT COMBUSTION	
	0.0023 LB/MMBTU	BACT
	LOW SULFUR OIL (.7 %)	
NOX	0.2000 LB/MMBTU	BACT
	LOW EXCESS AIR	
VOC	0.0003 LB/MMBTU	BACT
	EFFICIENT COMBUSTION	

CATALYST ACTIVATOR

BACT

CATALYST ACTIVATOR VENT

MAINTENANCE PROGRAM

BACT

PURGE FLARE

0.1400 LB/H

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER LA-0035

SOURCE TYPE CODE 6.62

(CONTINUED) ALLIED CHEMICAL

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
POWDER BLOWER		VOC	0.5300 LB/H STEAM INJECTION	BACT
FEED BLOWER		PH	3.0000 LB/H MAINTENANCE PROGRAM	BACT
FEED BLOWER		PH	3.0000 LB/H MAINTENANCE PROGRAM	BACT
BLENDER BLOWER		PH	3.0000 LB/H MAINTENANCE PROGRAM	BACT
BLENDER BLOWER		PH	3.0000 LB/H MAINTENANCE PROGRAM	BACT
PELLET BLOWER		PH	3.0000 LB/H MAINTENANCE PROGRAM	BACT
TRANSFER BLOWER		PH	3.0000 LB/H MAINTENANCE PROGRAM	BACT
FUGITIVE EMISSIONS		VOC	6.3000 LB/H CHECK ONCE PER MONTH	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
SOURCE TYPE CODE 6.62

ID NUMBER LA-0035

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

12000.00 T/YR

COMPANY NAME/SITE LOCATION AMERICAN CHROME & CHEMICAL, INC.

TX

NUECES COUNTY

DETERMINATION IS BACK FOR A NEW SOURCE.

PERMIT NO. 9212

DETERMINATION MADE BY TEXAS ACB

(AGENCY)

AMBA HANN

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/29/82

ESTIMATED DATE OF START-UP-- 1984

(512)-451-5711

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

SCRUBBER #1

0.5000 LB/H

VENTURI SCRUBBER

NAOH

95.00

SCRUBBER #2

0.5000 LB/H

VENTURI SCRUBBER

CL

95.00

SCRUBBER #3

0.1200 LB/H

VENTURI SCRUBBER

ACI*

95.00

SCRUBBER #3

0.1400 LB/H

VENTURI SCRUBBER

SOD*

95.00

SCRUBBER #3

0.4400 LB/H

VENTURI SCRUBBER

ACI*

99.50

NOTES -----
DETERMINED BY MODELING AND HEALTH EFFECTS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER TX-0122

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 05/04/1984

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

220.00 MMLB/YR

COMPANY NAME/SITE LOCATION AMERICAN HOECHST

PASADENA, TX

HARRIS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 5264

DETERMINATION MADE BY

TEXAS ACB
(AGENCY)

SAM CROWTHER
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/01/77
ESTIMATED DATE OF START-UP-- 1980
(512)-451-5711
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

STORAGE TANKS

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

VOC

0.5500 T/YR

CONDENSER & CARBON ADSORBER

AP42
90.00

PM

2.3000 T/YR
350.0000 LB/CU. M
CYCLONES

TECH

VOC

NONE
VENTED TO FUEL SYSTEM OR FLARE

NOTES

FIRST TEXAS POLYETHYLENE PLANT WITH NO PROCESS VENTS TO ATMOSPHERE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER TX-0083A

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION ARKANSAS EASTMAN

BATESVILLE, AR

INDEPENDENCE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-AR-311
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

DATE OF PERMIT ISSUANCE-- 03/27/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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BOILER, COAL-FIRED

193.00 MMBTU/H

PH	0.0600 LB/MMBTU	ELECTROSTATIC PRECIPITATOR	BACT
SO2	1.6000 LB/MMBTU	LOW SULFUR COAL (1.0% S)	99.00 BACT
NOX	0.6000 LB/MMBTU	FLUE GAS OXYGEN MONITOR	BACT
PH	1.0000 LB/H	EXISTING CONTROL EQUIP. COVERS, VENTS AND SPRAYING	BACT

COAL HANDLING SYS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER AR-0002

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION BASF-WYANDOTTE
P.O. BOX 181

PARSIPPANY, LA 70054

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO.

DETERMINATION MADE BY

EPA REGION VI
(AGENCY)

JOE WINKLER
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/27/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

STEAM BOILER

THROUGHPUT
CAPACITY

303.00 M³BTU/H

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

NOX

36.4000 LB/H
C.1200 LB/M³BTU
LOW NOX BURNER

BACT

NOTES -----
NATURAL GAS USED AS FUEL

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER LA-0014

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE

OTHER CHEMICAL

BOFORS-NOBEL, INC.

MUSKEGON, MI

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 629-83

DETERMINATION MADE BY MICHIGAN DNR
(AGENCY)

GREGORY EDWARDS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/15/85
ESTIMATED DATE OF START-UP-- 1985
(517)-322-1330
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

MF9. OF HDOCA

CONFIDENTIAL

VOC

0.1300 LB/H
0.5500 T/YR

BACT

CAS#

WET SCRUBBER & CARBON ADSORPTION
11.3/CU. METER

99.95
BACT

VE

EAGFILTER + DUAL PARALLEL ABSOLUTE FILTERS
0.0000 % OPACITY

99.99
BACT

NOTES

HDOCA (CAS#101-14-4) = 4,4'-METHYLENE-BIS-(2 CHLOROANILINE), ALSO CALLED MOCA & CURENE 442. PERMITS INCLUDE ENTIRE PROCESS, SYNTHESES THROUGH PACKAGING.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

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ID NUMBER MI-0028A

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL 5500.00 MMBL/YR (SEE NOTE)

COMPANY NAME/SITE LOCATION B.F. GOODRICH CHEMICAL GROUP

CONVENT, LA

ST. JAMES PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-326
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

DATE OF PERMIT ISSUANCE-- 11/24/80
ESTIMATED DATE OF START-UP-- 1983
(214)-767-1594
(PHONE)

BILL TAYLOR
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

EDC CRACKING FURNACES

98.00 MMBTU/H EA

POLLUTANT
EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION ... BASIS

... PCT EFF

PM	0.0110 LB/MMBTU	NATURAL GAS AS FUEL	BACT
SO2	0.0006 LB/MMBTU	NATURAL GAS AS FUEL	BACT
NOX	0.1400 LB/MMBTU	LOW NOX BURNER	BACT
CO	0.0180 LB/MMBTU	STAGED BURN + LOW FLAME TEMP.	BACT
		O2 FLUE GAS MONITORING	
PM	6.1600 LB/H	MULTI-COMPARTMENT BAGHOUSE	BACT
NOX	0.4700 LB/MMBTU	O2 FLUE GAS MONITORING	BACT
CO	0.0090 LB/MMBTU	O2 FLUE GAS MONITORING	BACT
NOX	0.4900 LB/MMBTU	O2 FLUE GAS MONITORING	BACT
CO	0.0010 LB/MMBTU	FLUE GAS MONITORING	BACT
PM	4.5600 LB/H	CYCLONE SEPARATOR + WET SCRUB.	BACT
		BOTH DEVICES RECYCLED	99.70

PVC SILOS, 52 EA

150.00 MMBTU/H

WASTE GAS INCIN.

24.00 MMBTU/H

(*) INDICATES DATUM HAS TRUNCATED FOR THIS TABLE.
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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
SOURCE TYPE CODE 6.62

ID NUMBER LA-0015

(CONTINUED) B.F. GOODRICH CHEMICAL GROUP

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED	338.00 M ³ BTU/H				
		PH	0.0150 LB/M ³ BTU		BACT
			BAGHOUSE, MULTI-COMPARTMENT		99.70
		SO ₂	0.3300 LB/M ³ BTU		BACT
		NOX	0.7000 LB/M ³ BTU	FLUE GAS DESULFURIZATION	56.00
			BOILER DESIGN		NSPS
		CO	0.0600 LB/M ³ BTU		BACT
			HIGH EXCESS AIR		

NOTES

4 EDC CRACKING FURNACES (NATURAL GAS FIRED), 52 PVC SILOS WASTE GAS INCINERATOR, WASTE GAS INCINERATOR, AND 4 PVC DRYERS USING STEAM PRODUCED BY A COAL-FIRED SPREADER STOKER BOILER. EDC - 2700 MMLB/YR, VCH - 1700 MMLB/YR, PVC -1100 MM LB/YR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER LA-0015

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE
OTHER CHEMICAL

COMPANY NAME/SITE LOCATION B.F. GOODRICH CO.

AVON LAKE, OH

LORAIN COUNTY

DETERMINATION IS B/L
PERMIT NO. 1947030004
DETERMINATION MADE BY

OHIO EPA NED
(AGENCY)

DENNIS BUSH
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/30/81
ESTIMATED DATE OF START-UP-- 1983
(216)-425-9171
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT
COAL FIRED BOILER

THROUGHPUT
CAPACITY
230.00 MMBTU/H

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

SO2	1.2000 LB/MMBTU 1250.0000 T/YR	LAER
CO	0.1900 LB/MMBTU 200.0000 T/YR	90.00 BACT
NOX	0.7000 LB/MMBTU 730.0000 T/YR	BACT
PM	0.0600 LB/MMBTU 63.0000 T/YR	BACT
	FABRIC FILTER	99.00

NOTES -----
INTERNAL OFFSETS FOR SO2 PROVIDED BY REDUCING SULFUR CONTENT OF COAL USED IN EXISTING BOILERS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER OH-0023

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL 152.30 MMBTU/H
 COMPANY NAME/SITE LOCATION B.F. GOODRICH, CHEMICAL DIV LOUISVILLE, KY JEFFERSON COUNTY
 BULLS LANE

DETERMINATION IS FOR A MODIFIED SOURCE.
 PERMIT NO. KY-091
 DETERMINATION MADE BY KENTUCKY DAPC (AGENCY)
 JOHN MCCARTHY (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 02/28/80
 ESTIMATED DATE OF START-UP-- (502)-587-3327 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS ... & BASIS
 COAL FIRED BOILER
 PH 0.0300 LB/MMBTU BAGHOUSE 98.60
 SO2 1.0000 LB/MMBTU LOW S COAL 65.00

NOTES -----
 SUBJECT TO NON-ATTAINMENT REQUIREMENTS OF THE KENTUCKY SIP.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983 02/13/1984
 ID NUMBER KY-0012
 SOURCE TYPE CODE 6.62
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

18000.00 BBL

COMPANY NAME/SITE LOCATION CONOCO CHEMICAL CO.

LIVERPOOL, TX

BRAZORIA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. X-3826

DETERMINATION MADE BY

TEXAS ACB
(AGENCY)

ED KASPRZYK

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/01/82
ESTIMATED DATE OF START-UP-- 1983
(512)-451-5711
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

STORAGE TANKS, 2

THROUGHPUT
CAPACITY

1.19 MMBBL/YR EA

POLLUTANT
EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

BEN# 1.3000 T/YR

INT. FLOAT. ROOF W/DOUBLE SEALS
SEAL POTS VENT TO ACTIV. CHARCOAL BEDS

AP42

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER TX-0107

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION DIAMOND SHAHROCK CORP.

CASTLE HAYNE, NC

NEW HANOVER COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. NC 058

DETERMINATION MADE BY

NORTH CAROLINA DEM

(AGENCY)

MIKE SEWELL

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE--

ESTIMATED DATE OF START-UP--

(919)-733-6126

(PHONE)

PROCESSES SUBJECT

TO THIS PERMIT

THROUGHPUT

CAPACITY

POLLUTANT

EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS

... PCT EFF

SODIUM BICHRONATIC PLANT/BOILERS

32.50 T/H

SO2

25.0000 LB/HMBTU

SCRUBBER/LOW SULFUR COAL

BACT

PM

96.4300 UNKNOWN

BAGHOUSE-SCRUBBER

BACT

ADDITION

ADDITION

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER NC-0004

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1993

SOURCE TYPE CODE S-62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE
OTHER CHEMICAL

COMPANY NAME/SITE LOCATION DOW CHEMICAL

CLUTE, TX

BRAZORIA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. X3973

DETERMINATION MADE BY TEXAS ACB
(AGENCY)

L. ROBERTS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/01/82
ESTIMATED DATE OF START-UP--
(512)-451-5711
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT
PRODUCT STRIPPER

POLLUTANT EMISSION LIMITS
EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

ALK* 2.1000 T/YR

PACKED TOWER WATER SCRUBBER

96.00

NOTES

EMISSIONS ARE SUSPECTED CARCINOGENS, MUTAGENS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER TX-0105

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION DOW CHEMICAL CO.

PLAQUEMINE, LA

IBERVILLE PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-393
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

DATE OF PERMIT ISSUANCE-- 06/11/81
ESTIMATED DATE OF START-UP-- 1982
(214)-767-1594
(PHONE)

TOM DIGGS
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

TURBINE, NAT. GAS-FIRED, 2 EA 1203.00 MBTU/H

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

NOX

0.4400 LB/MBTU

NSPS

CO

0.1200 LB/MBTU

85.00
BACT

GOOD COMBUSTION PRACTICE

NOTES

2 NATURAL GAS-FIRED TURBINE GENERATOR SETS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER LA-0011

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE
OTHER CHEMICAL

COMPANY NAME/SITE LOCATION EMERY INDUSTRIES

CINCINNATI, OH

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. OHIO 14-312
DETERMINATION MADE BY

SH OHIO APC
(AGENCY)

JIM BAIRET
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/23/80
ESTIMATED DATE OF START-UP--
(513)-251-8777
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

BOILER, COAL-FIRED

THROUGHPUT
CAPACITY
35.00 MMBTU/H

POLLUTANT
EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

PM 0.0600 LB/MMBTU
SO2 1.6000 LB/MMBTU
NOX 0.7000 LB/MMBTU
LOW S COAL < 1.0% S

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

ID NUMBER OH-3013

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION ESK CORP.

HENNEPIN, IL

PUTNAM COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 79 04 0002

ILLINOIS EPA
(AGENCY)

CHRIS ROMANINE
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/07/78
ESTIMATED DATE OF START-UP-- 1979
(217)-782-2113
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

FURNACE, SILICON CARBIDE, 12

4.23 T/YR

SO2

967.0000 LB/H

MATERIAL SPECIFICATION & OPERATION

BACT

MATERIAL HANDLING & PROCESSING

PH

0.0150 GR/DSCF
FABRIC FILTER
ENCLOSURES

BACT

VE

0.0000 % OPACITY
COVERED VEHICLES

NOTES

SOURCE INITIALLY GRANTED TEMPORARY PSD PERMIT WITH FLARING OF H2S IN 1979. SOURCE ISSUED REVISED PSD PERMIT IN 4/84 AUTHORIZIN G OPERATION WITH FLARING ON A PERMANENT BASIS. ALSO PERMIT NUMBER 155 801 AAC.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 04/04/1984

ID NUMBER IL-0004

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION EXXON CHEMICAL

BATON ROUGE, LA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-221
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/01/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

THERMAL OXIDIZERS, 2 EA 141.00 MMBTU/H

SO2 2.0600 LB/MMBTU
THERMAL SCRUBBER

BACT
90.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER LA-0034

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION E.I. DUPONT DE NEMOURS

CIRCLEVILLE, OH

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. EPA-5-A-81-1
DETERMINATION MADE BY EPA REGION V
(AGENCY)

DATE OF PERMIT ISSUANCE-- 12/08/80
ESTIMATED DATE OF START-UP--
(312)-886-6054
(PHONE)

BONIFACE THAYIL
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

BOILERS, COAL-FIRED, 2 70000.00 LB/H

SO2 1.6000 LB/MMBTU

1% S COAL

PM 0.0600 LB/MMBTU

NOX 0.6000 LB/MMBTU

BAGHOUSE FILTERS

LOW EXCESS AIR & BURNER DESIGN

NOTES
SOURCE NOT BUILT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER OH-0005

SOURCE TYPE CCDE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION E.I. DUPONT DE NEMOURS

LAPLACE, TX

ST. JOHN THE BAPTIST COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-335
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

DATE OF PERMIT ISSUANCE-- 04/28/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

TOM DIGGS
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

BOILER

240.00 MMBTU/H

PH 0.0500 LB/MMBTU OIL
0.0840 LB/MMBTU COAL
BAGHOUSE
SO2 0.7900 LB/MMBTU OIL
1.6900 LB/MMBTU COAL
NOX 0.3000 LB/MMBTU OIL
0.6000 LB/MMBTU COAL
LOW SULFUR COAL (1.0%)
LOW NOX BURNERS

99.20

COAL CAR UNLOAD

PH 0.2000 LB/H
BAGHOUSE

BACT
99.00

CONVEYING TRANSFER

PH 0.1330 LB/H
ENCLOSED

BACT

LOAD

PH 0.2400 LB/H
ENCLOSED

BACT

EROSION

PH 0.0170 LB/H
WETTING

BACT

PILE EROSION

PH 0.0170 LB/H
WETTING

BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER TX-0027

SOURCE TYPE CODE 6.62

(CONTINUED) E.I. DUPONT DE NEMOURS

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
RECLAIMING				
PUMPING		PM	0.0160 LB/H DUST SUPPRESSANT	BACT
ASH HANDLING		PM	0.2120 LB/H DUST SUPPRESSANT	BACT
		PM	0.0050 LB/H BAG FILTER	BACT 99.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 6.62

ID NUMBER TX-0027

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE
 OTHER CHEMICAL
 COMPANY NAME/SITE LOCATION FERRO CHEMICAL DIV OF FERRO CORP.
 BEDFORD, OH 44146

DETERMINATION IS BACK FOR A NEW SOURCE.
 PERMIT NO. 13-956
 DETERMINATION MADE BY CLEVELAND DAPC
 (AGENCY)
 IKRAM HABIB
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE--
 ESTIMATED DATE OF START-UP-- 1982
 (216)-664-3508
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT
 THROUGHPUT CAPACITY
 3.12 MMBTU/H
 POLLUTANT EMITTED
 EMISSION LIMITS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
 ... PCT EFF
 BOILER
 PM 0.1690 LB/H
 0.0540 LB/MMBTU
 WET SCRUBBER
 95.00

NOTES
 SCRUBBER NEED ONLY BE OPERATED DURING COMBUSTION OF WASTE SOLVENT FUELS. SCRUBBER OPERATION NOT REQUIRED FOR NO.2 OIL OR NATURAL GAS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER OH-0025
 SOURCE TYPE CODE 6.62
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION HCC CHEMICAL CO.
CONVENT CHEMICAL CORP.

CONVENT, LA

ST. JAMES PARISH

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-108
DETERMINATION MADE BY EPA REGION VI
(AGENCY)

DATE OF PERMIT ISSUANCE-- 11/06/80
ESTIMATED DATE OF START-UP-- 1980
(214)-767-1594
(PHONE)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

BOILER, SPREADER STOKER

312.50 MMBTU/H

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION ... BASIS

... PCT EFF

POLLUTANT EMITTED	SO2	0.3200	LB/MMBTU COAL	BACT
	NOX	0.7000	LB/MMBTU COAL	BACT
	CO	0.0950	LB/MMBTU COAL	BACT
	PM	0.0200	LB/MMBTU COAL	BACT
	SO2	0.1400	LB/MMBTU RESID. OIL	BACT
	NOX	0.3000	LB/MMBTU RESID. OIL	BACT
	CO	0.0360	LB/MMBTU RESID. OIL	NSPS
	PM	0.0200	LB/MMBTU RESID. OIL	BACT
	SO2	0.3200	LB/MMBTU DIST OIL	BACT
	NOX	0.1600	LB/MMBTU DIST OIL	BACT
	CO	0.0360	LB/MMBTU DIST OIL	99.70
	PM	0.0140	LB/MMBTU DIST OIL	99.70

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER LA-0018

SOURCE TYPE CODE 6.62

(CONTINUED) HCC CHEMICAL CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
BOILER, GAS/OIL	173.00 MMBTU/H	SO ₂	0.0006 LB/MMBTU N. GAS	BACT
		NOX	GAS AS FUEL 0.1700 LB/MMBTU N. GAS	BACT
		CO	BOILER DESIGN 0.0170 LB/MMBTU N. GAS	BACT
		PM	BOILER OPERATION 0.0100 LB/MMBTU N. GAS	BACT
BOILER, WASTE GAS	230.00 MMBTU/H	SO ₂	GAS AS FUEL 0.3200 LB/MMBTU	BACT
		NOX	FLUE GAS DESULFURIZATION 0.3000 LB/MMBTU	96.00 NSPS
		CO	BOILER DESIGN 0.0400 LB/MMBTU	BACT
		PM	BOILER OPERATION 0.0200 LB/MMBTU	BACT
COAL CRUSHER HOUSE		NOX	BAGHOUSE	99.70
		PM	0.2000 LB/MMBTU BOILER DESIGN	99.70
COAL BUNKER HOUSE		PM	0.0100 LB/MMBTU BAGHOUSE	99.70
		PM	2.1500 LB/H BAGHOUSE	99.70
ASH SILO		PM	0.3600 LB/H BAGHOUSE	99.70
		PM	0.2300 LB/H BAGHOUSE	99.70
COAL HANDLING		PM	5.3000 LB/H HANDLING TECHNIQUES	99.70
		PM		

NOTES -----

MODIFIED PERMIT ISSUED 11-06-80. SPREADER STOKER BOILER MAY USE NATURAL GAS, DISTILLATE OIL, OR RESIDUAL OIL.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER LA-0018

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

260.00 MHLB/YR

COMPANY NAME/SITE LOCATION HIMONT USA, INC.

PASADENA, TX

HARRIS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 9496

DETERMINATION MADE BY TEXAS ACB
(AGENCY)

AMBA MANN
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/11/85
ESTIMATED DATE OF START-UP-- 1985
(512)-451-5711
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

POLYPROPYLENE PROCESS

THROUGHPUT
CAPACITY

260.00 MHLB/YR

POLLUTANT EMISSION LIMITS
EMITTED

CONTROL EQUIPMENT OR PROCESS MODIFICATION ... BASIS
... FCT EFF

VOC 25.9000 T/YR
FLARE

BACT
99.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
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INITIAL REVIEW POST STARTUP
REVIEW STATUS:

ID NUMBER TX-0160

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION ICI AMERICAS, INC.

, VA

CHESTERFIELD COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 50418

DETERMINATION MADE BY VIRGINIA APCB

(AGENCY)

PAUL PITTS

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/28/82

ESTIMATED DATE OF START-UP--

(804)-786-4867

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

VIRGIN CHIP BUNKER

6.50 T/H

PM 0.0025 LB/H

BAGFILTERS

99.90

VIRGIN CHIP HOPPER

11.20 T/H

PM 0.0025 LB/H

CYCLONE

99.90

RECLAIM CHIP HOPPER

11.20 T/H

PM 0.0025 LB/H

CYCLONE

99.90

FLAKE BUNKER

4.50 T/H

PM 0.2400 LB/H

BAGFILTER

99.95

FLAKE HOPPER

1.50 T/H

PM 0.4200 LB/H

BAGFILTER

99.95

STENTER CONVEYOR

2.50 T/H

PM 0.0025 LB/H

BAGFILTER

99.95

EDGE/SCRAP CONVEYOR

5.50 T/H

PM 0.0025 LB/H

BAGFILTER

99.95

SILT/SCRAP CONVEYOR

1.50 T/H

PM 0.0011 LB/H

BAGFILTER

99.95

SLITTER

1.00 T/H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

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ID NUMBER VA-0016

SOURCE TYPE CODE 6.62

(CONTINUED) ICI AMERICAS, INC.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
DRYER	2.50 T/H	PM	0.0028 LB/H	
		PM	0.0180 LB/H BAGFILTER	99.95

NOTES -----
MAKES PLASTIC FILM FROM CHIPS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993
ID NUMBER VA-0016
SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL 233.90 MMBTU/H

COMPANY NAME/SITE LOCATION LITHIUM CORP. BESSEMER CITY, NC

GASTON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. (REGION FILE NO.) NC-075
 DETERMINATION MADE BY NORTH CAROLINA DEM
 (AGENCY)
 MIKE SEWELL
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 02/12/81
 ESTIMATED DATE OF START-UP--
 (919)-733-6126
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY 233.90 MMBTU/H
 POLLUTANT EMISSION LIMITS ... & BASIS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
 BOILER

NOX 0.7000 LB/MMBTU
 BOILER DESIGN NSPS

NOTES
 PSD IS ONLY FOR NOX EMISSIONS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER NC-0023
 SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL 221.00 MMBTU/H

COMPANY NAME/SITE LOCATION LITHIUM CORP. OF AMERICA BESSEMER CITY, NC

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 01/23/85
 PERMIT NO. 4540P ESTIMATED DATE OF START-UP-- 1986
 DETERMINATION MADE BY NORTH CAROLINA DEM (919)-733-7015
 (AGENCY) (PHONE)

(AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED	221.00 MMBTU/H	SO2	1.5600 LB/MMBTU LOW S COAL, 1%	BACT
		NOX	0.6000 LB/MMBTU BOILER DESIGN	BACT
		CO	0.4000 LB/MMBTU BOILER DESIGN	BACT

NOTES -----
 NOX LIMIT IS BASED ON THE PROPOSED NSPS FOR BOILERS > 100 MMBTU.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STATUS: REVIEW STATUS: SOURCE TYPE CODE 6.62

ID NUMBER NC-0023A

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION MALLINCKRODT, INC

ST. LOUIS, MO

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO.

DETERMINATION MADE BY EPA REGION VII

(AGENCY)

DANIEL RODRIGUEZ

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/17/82

ESTIMATED DATE OF START-UP-- 1983

(916)-374-6525

(PHONE)

PROCESSES SUBJECT

TO THIS PERMIT

THROUGHPUT

CAPACITY

COAL FIRED BOILER

115.10 MMBTU/H

POLLUTANT

EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS

... PCT EFF

SO2

2.0000 LB/MMBTU 300 R AV

2.8500 LB/MMBTU MAX/D, MED S

1.2000 LB/MMBTU MAX/D, LOW S

1.2000 LB/MMBTU FUEL OIL

0.0100 LB/MMBTU GAS

0.6000 LB/MMBTU

0.3000 LB/MMBTU FUEL OIL

0.2000 LB/MMBTU GAS

SO2

NOX

NOX

NOTES

STAND-BY FUELS OF NATURAL GAS & NO.6 FUEL OIL. COAL SAMPLING & FUEL ANALYSIS USED FOR COMPLIANCE TESTING FOR SO2.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

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ID NUMBER MO-0005

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL 60.00 MMBTU/H

COMPANY NAME/SITE LOCATION HALLINCKRODT, INC. RALEIGH, NC WAKE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 5126
DETERMINATION MADE BY NORTH CAROLINA DEM (AGENCY)
MIKE SEWELL
(AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/19/83
ESTIMATED DATE OF START-UP-- 1984
(919)-733-7015
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED	60.00 MMBTU/H	SO2	1.5000 LB/MMBTU	
			LOW S COAL, 1%	
		NOX	0.7000 LB/MMBTU	
			GOOD OPERATING PRACT.	

NOTES -----
THE BOILER WILL HAVE A BAG FILTER TO CONTROL PM EMISSIONS, PM IS NOT SUBJECT TO PSD.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
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ID NUMBER NC-0030
INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION MARATHON OIL CO.

BYRON FIELD, NY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. CT-517
 DETERMINATION MADE BY WYOMING AGD
 (AGENCY)

DATE OF PERMIT ISSUANCE-- 11/21/83
 ESTIMATED DATE OF START-UP-- 1984
 (307)-332-3144
 (PHONE)

DAN FAUTH
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT
 TO THIS PERMIT

THROUGHPUT
 CAPACITY

POLLUTANT
 EMISSION LIMITS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
 ... PCT EFF

STORAGE, AIR SPARGE, REACTOR, HYDR*

ACR#	0.0000 G/SEC, NOTE #1	BACT	90.00
ACR#	0.0000 G/SEC, NOTE #1	BACT	90.00
NH4	0.0010 G/SEC, NOTE #1	BACT	75.00
	PACKED TOWER H2O SCRUBBER	BACT	90.00
	PACKED TOWER H2O SCRUBBER		
966.00 CU METER/YR			
HCL	22.0000 G/CU METER		
	LIMESTONE DRY SCRUBBER, NOTE #2		90.00

NOTES

NOTE #1 -- AS MEASURED AT SCRUBBER OUTLET, NOTE #2 -- LIMESTONE TO BE CHANGED OUT ONCE EVERY FOUR MONTHS. ALSO, EFFICIENCIES A RE MINIMUM REDUCTION OF POLLUTANT AGREED TO BY MARATHON.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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REVIEW STATUS:

INITIAL REVIEW POST STARTUP

ID NUMBER 17-0007

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE

OTHER CHEMICAL

COMPANY NAME/SITE LOCATION MERCK & CO., KEKO DIVISION
P.O. BOX 13216

SAN DIEGO, CA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NSR-4-4-10 SD-81-01
DETERMINATION MADE BY EPA REGION IX
(AGENCY)

RICK SUGAREK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/20/81
ESTIMATED DATE OF START-UP--
(415)-974-8224
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

TURBINE, 3

7.16 MW EA

NOX

20.0000 LB/H PER TURBINE
0.2400 LB/HBTU
WATER INJECTION

BACT

70.00

DUCT BURNERS, 3

30.00 MBTU EA

NOX

3.1000 LB/H PER BURNER
0.1000 LB/HBTU
LOW NOX DESIGN

BACT

75.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 04/04/1984

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ID NUMBER CA-0036

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL 6200.00 BTU/LB
 COMPANY NAME/SITE LOCATION HEREDITH/BURDA, INC. NEWTON, NC CATAWBA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. NC-064 NORTH CAROLINA DEM MIKE SENELL DATE OF PERMIT ISSUANCE-- 07/06/80
 DETERMINATION MADE BY (AGENCY) (AGENCY CONTACT PERSON) (919)-733-6126 ESTIMATED DATE OF START-UP--
 (PHONE)

PROCESSES SUBJECT THROUGHPUT EMISSION LIMITS ... & BASIS
 TO THIS PERMIT CAPACITY CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
 BOILER 3366.00 LB/H PAPER PM 4.0000 LB/H NO. 6 OIL SO2
 CHROME CYLINDER ACI* 0.0010 LB/H BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER NC-0010 SOURCE TYPE CODE 6.62
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

84.70 T/D

COMPANY NAME/SITE LOCATION HOLY CORP., INC.

WASHINGTON, PA

WASHINGTON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 79PA22
DETERMINATION MADE BY

EPA REGION III
(AGENCY)

DAVID ARNOLD
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/21/80
ESTIMATED DATE OF START-UP-- 1980
(215)-597-7936
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

ROASTER

84.70 T/D

PH

5.1000 LB/H

BAGHOUSE

SO2

75.0000 LB/H

DBL-ABSORB ACID PLANT(SCRUB.)

BACT

99.50

BACT

98.50

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER PA-0016

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL 150.00 MMBTU/H

COMPANY NAME/SITE LOCATION MONSANTO CO. MUSCATINE, IA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. EPA REGION VII
DETERMINATION MADE BY (AGENCY) DANIEL RODRIGUEZ
(AGENCY CONTACT PERSON)
(816)-374-6525
(PHONE)

DATE OF PERMIT ISSUANCE-- 11/12/82
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT THROUGHPUT
TO THIS PERMIT CAPACITY
BOILER B-8 SPREADER-STOKER 150.00 MMBTU/H

EMISSION LIMITS ... & BASIS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

SO2	1.9500 LB/MMBTU 3H R AV	BACT
PM	0.0300 LB/MMBTU PERCENT SULFUR CONTENT	BACT
NOX	0.6000 LB/MMBTU 30D R AV BAGHOUSE	BACT
VE	NO AIR PREHEAT 20.0000 %, 6 MIN AVG.	BACT
PH	0.0100 GR/DSCF BAGHOUSE	BACT
VE	20.0000 % OPACITY	BACT
PH	0.0100 GR/DSCF BAGHOUSE	BACT
VE	20.0000 % OPACITY	BACT

ASH HANDLING

COAL HANDLING

NOTES -----
BY-PASSING OF THE BOILER'S BAGHOUSE IS LIMITED TO 20 HOURS PER YEAR

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1993

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE CODE 6.62

ID NUMBER IA-0010

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION MONSANTO CO.

ALVIN, TX

BRUZORIA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. PSD-TX-307
DETERMINATION MADE BY

EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/26/81
ESTIMATED DATE OF START-UP-- 1982
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

INCIN., MHA SCRUBBER STACK

1.00 MMLB/YR

S02 11.3500 LB/H
CAUSTIC STACK SCRUBBER

FLARE STACK

S02

SHOKELESS FLAME - NO VIS. EMIS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 6.62

ID NUMBER TX-0059

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL 2000.00 LB/H
 COMPANY NAME/SITE LOCATION H&T CHEMICALS, INC. CARROLLTON, KY 41008 CARROLL COUNTY
 P.O. BOX 1580

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. PSD-KY-127 DATE OF PERMIT ISSUANCE-- 03/07/80
 DETERMINATION MADE BY KENTUCKY DAPC ESTIMATED DATE OF START-UP-- 1980
 (AGENCY) BILL DILLS (502)-564-3382 (PHONE)

PROCESSES SUBJECT THROUGHPUT EMISSION LIMITS ... & BASIS
 TO THIS PERMIT CAPACITY CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
 REACTOR, TIN TETRACHLORIDE 1000.00 LB/H PH 50.0000 T/YR VENTURI SCRUBBER NSR
 2ND UNIT UP TO 1500 LB/H 99.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983 02/13/1984
 SOURCE TYPE CODE 6.62

ID NUMBER KY-0005

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL
 COMPANY NAME/SITE LOCATION PHTHALEHEM, INC.
 CINCINNATI, OH

DETERMINATION IS BACT
 PERMIT NO. NOTE #1
 DETERMINATION MADE BY SOUTHWEST OHIO APCA
 (AGENCY) FRANK STOY
 (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 10/11/84
 ESTIMATED DATE OF START-UP-- 1984
 (513)-251-8777
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY EMISSION LIMITS ... & BASTS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
 REACTOR #5 2.00 MGAL AMH* 27.0000 LB/H PACKED TOWER SCRUBBER BACT 50.00
 HOLD POND(NOTE#2),AMBIENT MONIT.(NOTE#3)

REACTOR #6 2.00 MGAL AMH* 27.0000 LB/H PACKED TOWER SCRUBBER BACT 50.00
 HOLD POND(NOTE#2),AMBIENT MONIT.(NOTE#3)

NOTES
 NOTE 1 -- PERMIT NUMBERS 14-553 & 14-622, NOTE 2 -- TKN DISCHARGE TO SEWER SHALL BE MAINTAINED AT OR NEAR 1000 PPM (500 LB/D),
 NOTE 2 -- CONTINUOUS AMMONIA MONITOR REQUIRED ON PLANT PROPERTY.
 ANNUAL PRODUCTION CONFIDENTIAL

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 REVIEW STATUS: INITIAL REVIEW POST STARTUP
 ID NUMBER OH-0067 SOURCE TYPE CODE 6.62
 PAGE G- 756

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL 729.40 MMBTU/H
 COMPANY NAME/SITE LOCATION PLAINS ELECT. GEN & TRANS , NM SANDOVAL COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. (REGION FILE NO.) PSD-NM-418
 DETERMINATION MADE BY EPA REGION VI
 (AGENCY)
 TOM DISOS
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 12/29/81
 ESTIMATED DATE OF START-UP-- 1983
 (214)-767-1594
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINE GEN, NAT. GAS-FIRED	729.40 MMBTU/H	NOX	270.0000 LB/H 0.3700 LB/MMBTU	BACT
		SO2	2.9000 LB/H 0.0040 LB/MMBTU	42.50 BACT
			NONE	
TURBINE GEN, OIL AS STANDBY FUEL	722.30 MMBTU/H	NOX	260.0000 LB/H 0.3680 LB/MMBTU	NSPS
		SO2	H2O INJECT (WATER/FUEL = 0.5) 156.0000 LB/H 0.2160 LB/MMBTU	66.70 BACT
			LOW SULFUR FUELS	

NOTES
 ALTERNATE EMISSION LIMITS FOR NATURAL GAS: NOX -- 270 LB/HR, SO2 -- 2.9 LB/HR. ALTERNATE EMISSION LIMITS FOR OIL: NOX -- 260 L B/HR, SO2 -- 156 LB/HR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER NM-0001
 SOURCE TYPE CODE 6.62
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL 243.00 HHBTU/H

COMPANY NAME/SITE LOCATION PPG INDUSTRIES NATRIUM, WV MARSHALL COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. 79HV06 EPA REGION III
 DETERMINATION MADE BY (AGENCY)
 VERNON BUTLER
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 10/08/80
 ESTIMATED DATE OF START-UP-- 1981
 (215)-597-2711
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY 243.00 HHBTU/H
 POLLUTANT EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
 NOX 0.7000 LB/HHBTU BURNER DESIGN--EXCESS O2< 4.5%
 BACT

NOTES
 0.7 LB/HHBTU DETERMINATION IS NOT AN EMISSION LIMITATION IN PSD PERMIT. BOILER #3 WAS STACK TESTED ON 5/13/82 WITH NO2 EMISSIONS OF 226 LB/H MEASURED, APPROX. = 0.93 LB/HHBTU.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER WV-0003
 SOURCE TYPE CODE 6.62
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL
 COMPANY NAME/SITE LOCATION PROCTOR CHEMICAL CO.

SALISBURY, NC

ROMAN COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 5096
 DETERMINATION MADE BY

NORTH CAROLINA DEM
 (AGENCY)

MIKE SEWELL
 (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/02/83
 ESTIMATED DATE OF START-UP-- 1981
 (919)-733-7015
 (PHONE)

PROCESSES SUBJECT
 TO THIS PERMIT
 ROTARY PORCUPINE DRYER

THROUGHPUT
 CAPACITY
 4346.00 LB/H

POLLUTANT
 EMITTED
 EMISSION LIMITS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION ... A BASIS
 ... PCT EFF

VOC 98.0000 % CONTROL
 303.0000 T/YR
 SURFACE CONDENSER

98.00

NOTES

THE NEW DRYER WILL DRY THE SOLID PORTIONS OF VARIOUS CHEMICAL PRODUCTS MANUFACTURED BY PROCTOR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

ID NUMBER NC-0029

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION PROCTOR & GAMBLE
6TH STREET

MACON, GA

8188 COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. GA 006
DETERMINATION MADE BY GEORGIA EPD
(AGENCY)

DATE OF PERMIT ISSUANCE-- 09/25/80
ESTIMATED DATE OF START-UP--
(404)-656-6900
(PHONE)

BILL MITCHELL
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

BOILER

87.50 MBTU/H

SO2 1.0000 % S OIL

FAT CONVERSION

VOC 37.0000 T/YR
FUE INCINERATOR

BACT
85.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

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ID NUMBER GA-0002

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION SHELL CHEMICAL CO.
P.O. BOX 2463

HOUSTON, LA 77001

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO.

DETERMINATION MADE BY EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/07/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

ASBESTOS DUST COLLECTOR (1-78)

PM 4.5000 G/D
DUST FILTER

BACT
99.00

EPA-4 PROCESS PRILL TOWER

PM 0.4800 LB/H
BAG FILTER

BACT
99.30

EPA RESINS, STORAGE, & SHIP.

PM 2.2500 LB/H
BAG FILTER

BACT
99.40

PROCESS HEATERS, 3 EA

65.00 MMBTU/H

PM 0.0250 LB/MMBTU
1.6300 LB/H EA

BACT

AIR/FUEL CONT. BY F.G. 02 MON.

SO2 0.6730 LB/MMBTU
56.7000 LB/H EA

BACT

0.7% S MAX. FUEL

CO 0.0390 LB/MMBTU
2.5000 LB/H EA

BACT

AIR/FUEL CONT. BY F.G. MON.

NOX 0.5422 LB/MMBTU
35.1000 LB/H EA

BACT

LOW EXCESS AIR BY F.G. 02 MON.

NOX 27.8000 LB/H
LOW EXCESS AIR BY F.G. 02 MON.

BACT

ORGANIC CHLORIDE INCIN. 10000.00 LB/H

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER LA-0030

SOURCE TYPE CODE 6.62

(CONTINUED) SHELL CHEMICAL CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAHE PROCESS (CONTINUED)				
SLUDGE INCIN.	10.00 MMBTU/H	PM	0.0200 GR/DSCF 2.0000 LB/H F.G. 02 MON. FOR PROPER COMBU.	BACT
		CO	3.2000 LB/H AIR/FUEL CONT. BY F.G. 02 MON.	BACT
		SO2	0.0000 LB/MMBTU	
		PH	0.0040 GR/DSCF 0.0630 LB/H VENTURI SCRUBBER AIR/FUEL CONT. BY F.G. 02 MON.	BACT
		SO2	0.8750 LB/MMBTU 8.7500 LB/H 0.7% S FUEL OIL (MAX)	BACT
		CO	0.8300 LB/H AIR/FUEL CONT. BY F.G. 02 MON.	BACT
		NOX	8.2000 LB/H LOW EXCESS AIR BY F.G. 02 MON.	BACT
BOILER, 3 EA	594.00 MMBTU/H	NOX	0.7000 LB/MMBTU 416.0000 LB/H LOW EXCESS AIR BY F.G. 02 CON.	BACT
		SO2	1.2000 LB/MMBTU 713.0000 LB/H LOW SULFUR COAL.	BACT
		CO	0.0640 LB/MMBTU 38.0000 LB/H	BACT
		PH	0.0650 LB/MMBTU 53.0000 LB/H E. S. P. AIR/FUEL CONT. BY F.G. 02 MON.	BACT
BOILER, 2 TEMPORARY	198.50 MMBTU/H EA	PM	0.1000 LB/MMBTU 19.9000 LB/H EA	BACT
		SO2	0.7500 LB/MMBTU 148.9000 LB/H EA 0.7% S FUEL (MAX.)	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

(CONTINUED) SHELL CHEMICAL CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
BARGE BUCKET UNLOADER		NOX	0.3000 LB/MBTU 59.6000 LB/H EA LOW EXCESS AIR BY F.G. O2 MON.	BACT
		CO	0.0330 LB/MBTU 6.5300 LB/H EA AIR/FUEL CONT. BY F.G. O2 MON.	BACT
BARGE TO STORAGE CONVEYOR		PM	466.4000 LB/D WATER SPRAY/FUGITIVE EMIS.	BACT
COAL PILE RECLAIM CONVEYOR		PM	127.6000 LB/D WATER SPRAY/FUGITIVE EMIS.	BACT
COAL DUMPING AT BOILERS USING C*		PM	3.6000 LB/D WATER SPRAY/FUGITIVE EMIS.	BACT
COAL PILE WIND EROSION		PM	16.0000 LB/D WATER SPRAY/FUGITIVE EMIS.	BACT
		PM	0.2300 T/YR CRUSHING AGENT TO REDUCE DUST	BACT

NOTES

SOURCE OPERATED CONTINUOUSLY. BPA-4 MEANS BIPHENOL ACETONE IN SOLID PHASE. ALLOWABLE EMISSIONS FROM EACH PROCESS HEATER DIVIDE
D BETWEEN 2 STACKS. ORGANIC CHLORIDE INCINERATOR IS SAID NOT TO BE A SOURCE OF SO₂. WHEN BOILERS FIRE OIL DUE TO SHORTA
GE OF COAL, THEY COMPLY W/NSFS. A THIRD TEMP. BOILER (264 MBTU/HR INPUT) FIRING SAME FUEL, HAS SAME BACT. ALLOWABLE EMISSIONS
ARE: SO₂, 0.25,198.5 \ NOX, 0.3,79.2 \ CO, 0.033,6.71 \ TSP, 0.1,26.4 -- UNITS ARE LB/MBTU AND LB/HR, RESPECTIVELY.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER LA-0030

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL 600.00 MET. T/YR

COMPANY NAME/SITE LOCATION SMITH KLINE CORP. UPPER MERION, PA MONTGOMERY COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. 79PA15 DATE OF PERMIT ISSUANCE-- 01/25/80
 DETERMINATION MADE BY EPA REGION III ESTIMATED DATE OF START-UP-- 1981
 (AGENCY) (215)-597-2711
 (PHONE)
 VERNON BUTLER
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
2 BOILERS, EA	700.00 HP EA	SO2	0.2000 % BY WT #2 OIL 1.6800 MMGAL/YR OIL	BACT
2 INCINERATORS, EA		PM	2.0000 LB/H VENTURI SCRUBBER	BACT
		SO2	3.0000 LB/H VENTURI SCRUBBER NAOH INJ.	BACT
GRINDER		VE	20.0000 % OPACITY BAGHOUSE	BACT
				99.50

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER PA-0023
 SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL
 COMPANY NAME/SITE LOCATION TENNESSEE EASTMAN CO.
 P.O. BOX 511
 KINGSFORT, TN 37662
 SULLIVAN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. TN 065
 DETERMINATION MADE BY TENNESSEE APCD
 (AGENCY)
 ANGIE PITCOCK
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 06/05/81
 ESTIMATED DATE OF START-UP--
 (615)-741-3651
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY
 780.00 HMBTU/H
 BOILER-COAL FIRED
 PH 14.0000 LB/H
 SO2 936.0000 LB/H
 LOW S FUEL
 COAL GASIFICATION-FUGITIVE
 PH 0.0020 GR/SCF
 ENCLOSED COAL TRANSFER PROC.
 BACT
 99.76
 BACT
 BACT

NOTES
 COAL GASIFICATION FOR CHEMICAL INTERMEDIATES.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER TN-0001
 SOURCE TYPE CODE 6.62
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION TENNESSEE EASTMAN CO.

KINGSPORT, TN

SULLIVAN COUNTY

DETERMINATION IS B/L FOR A MODIFIED SOURCE.

PERMIT NO. DETERMINATION MADE BY

TENNESSEE APCD (AGENCY)

ANN NIELSON (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/02/81
ESTIMATED DATE OF START-UP--
(615)-741-3651 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... 1 BASIS ... PCT EFF

FLARES

160.80 LB/H

VOC

0.0005 LB/H

INCINERATION

LAER

CO

0.0013 LB/H

INCINERATION

BACT

99.00

NOTES

EMISSION LIMITS ARE FOR NATURAL GAS FOR PILOT LIGHTS OF FLARES

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER TN-0007

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL
 COMPANY NAME/SITE LOCATION UNION CARBIDE
 P.O. BOX 428
 WOODBINE, GA 31569
 CAMDEN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. GA 069
 DETERMINATION MADE BY GEORGIA EPD
 (AGENCY)
 BILL MITCHELL
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 02/10/81
 ESTIMATED DATE OF START-UP-- 1982
 (404)-656-6900
 (PHONE)

PROCESSES SUBJECT THROUGHPUT EMISSION LIMITS
 TO THIS PERMIT CAPACITY
 BOILER
 SO2 418.0000 T/YR
 1% S FUEL
 ... & BASIS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 6.62

ID NUMBER GA-0005

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION UNIROYAL CHEMICAL, DIV. OF UNIROYAL INC.
P.O. BOX 397

GEISHAR, LA

ASCENSION PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. LA-250
DETERMINATION MADE BY

EPA REGION VI
(AGENCY)

JOHN BUNYAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/26/80
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

INCIN., WASTE

25.00 MBTU/H

NOX

4588.8000 LB/D

BACT
20.00

CAUSTIC SCRUB.
LOW NOX BURNERS, LEA FIRING

SO2

23.4000 LB/3H

BACT

95.00

CAUSTIC SCRUB

PM

28.8000 LB/D

BACT

98.00

CAUSTIC SCRUB

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER LA-0028

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL 45.00 MM
 COMPANY NAME/SITE LOCATION U.S. BORAX & CHEMICAL CORP.
 3075 WILSHIRE BLVD
 LOS ANGELES, CA 90010

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. SE-82-02
 DETERMINATION MADE BY EPA REGION IX
 (AGENCY)
 JOE SLAMOVICH
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE--
 ESTIMATED DATE OF START-UP--
 (415)-974-8235
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GAS TURBINE	3655.00 GAL/H	CO	72.0000 LB/H		BACT
		NOX	230.0000 LB/H		BACT
		SO2	219.0000 LB/H	WATER INJECTION	70.00
		PM	18.0000 LB/H	BURN LOW S FUEL/NAT. GAS	BACT
		VOC	0.5000 LB/H	COMBUSTION CONTROLS	BACT
		PB	0.0140 LB/H	COMBUSTION CONTROLS	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983 04/04/1984
 SOURCE TYPE CODE 6.62

ID NUMBER CA-0031

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION VELSICOL CHEMICAL CO.

CHATTANOOGA, TN

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 30-38C
DETERMINATION MADE BY CHATTANOOGA APCB
(AGENCY)

JAMES FRENCH
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/08/82
ESTIMATED DATE OF START-UP-- 1982
(615)-867-4321
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ACID PLANT	4155.00 LB/H	VOC		BACT
EXPANSION PLANT	4568.00 LB/H	BEN*	1.8000 LB/H WET SCRUB & CARBON ADSORPTION	BACT 99.00
BENZOTRICHORIDE SYNTHESIS	5000.00 LB/H	BEN*	0.4500 LB/H WET SCRUB & CARBON ADSORPTION	BACT 99.00
BENZYL CHLORIDE SYNTHESIS	5000.00 LB/H	BEN*	0.4500 LB/H WET SCRUB & CARBON ADSORPTION	BACT 80.00
		VOC	6.0500 LB/H WET SCRUB & CARBON ADSORPTION	BACT 80.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1993 01/25/1984

ID NUMBER TN-0016

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE

OTHER CHEMICAL

COMPANY NAME/SITE LOCATION VULCAN CHEMICALS CO.

GEISHAR, LA

ASCENSION PARISH

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. PSD-LA-528

LAGD/EPA REGION VI
(AGENCY)

NAN KILLEEN
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/31/84
ESTIMATED DATE OF START-UP-- 1985
(504)-342-8940
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

TURBINE/BOILER, N.G./WASTE HEAT* 195.60 MMBTU/H

NOX

224.7000 LB/H
985.0000 T/YR

BACT

NOX

94.0000 PPHV
STEAM INJECTION

BACT

CO

30.6000 LB/H
135.0000 T/YR

BACT

VE

NO VISIBLE EMISSION

TURBINE/BOILER, N.G./WASTE HEAT* 195.60 MMBTU/H

NOX

224.7000 LB/H
985.0000 T/YR

BACT

NOX

94.0000 PPHV
STEAM INJECTION

BACT

CO

30.6000 LB/H
135.0000 T/YR

BACT

VE

NO VISIBLE EMISSION

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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REVIEW STATUS: INITIAL REVIEW POST STARTUP

ID NUMBER LA-0055

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL 1.20 MHLB/YR

COMPANY NAME/SITE LOCATION WITCO CHEMICAL CORP.

HOUSTON, TX

FORT BEND COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 5536

TEXAS A&B
(AGENCY)

LOUIS ROBERTS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/11/85
ESTIMATED DATE OF START-UP-- 1985
(512)-451-5711
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

PROCESS VESSEL

THROUGHPUT
CAPACITY

1.20 MHLB/YR

POLLUTANT
EMITTED

VOC

0.6000 T/YR

FUME SCRUBBER

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... A BASIS
... PCT EFF

BACT
90.00

(*) INDICATES DATUM HAS TRUNCATED FOR THIS TABLE.

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REVIEW STATUS:

INITIAL REVIEW POST STARTUP

ID NUMBER TX-0161

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER CHEMICAL

COMPANY NAME/SITE LOCATION 3M CO., CHEMOLITE

ST. PAUL, MN

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 23A-01-I-49
DETERMINATION MADE BY MINNESOTA PCA
(AGENCY)

DATE OF PERMIT ISSUANCE-- 10/08/81
ESTIMATED DATE OF START-UP-- 1981
(612)-296-7272
(PHONE)

JERRY LIEFERT
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

ABRASIVE MINERAL PROCESS

325.00 T/YR

NOX 88.0000 T/YR MAX
SCRUBBER

BACT
95.00

NOTES -----

CONVENTIONAL UNITS AVAILABLE CONVERT ONLY ONE-THIRD OF THE NITROGEN DIOXIDE TO NO. CONTROL EFFICIENCIES ARE <LESS THAN 67% OF THE TOTAL OXIDES.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER MN-0004

SOURCE TYPE CODE 6.62

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE

FEED/GRAIN MILLS AND ELEVATORS

SOUTH WHITEHALL TOWNSHIP, PA

LEHIGH COUNTY

COMPANY NAME/SITE LOCATION ALLEN PRODUCTS CO., INC.

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 79PA13
DETERMINATION MADE BY EPA REGION III
(AGENCY)

BOB BLASZCZAK
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/04/79
ESTIMATED DATE OF START-UP-- 1979
(215)-597-0106
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

GRAIN UNLOAD STATION

4.70 MCF/H

PM 1.0000 LB/H
BAGHOUSE

BACT
99.90

GRINDING & BLENDING STATION

35.00 MLB/H

PM 0.5000 LB/H
BAGHOUSE

BACT
99.90

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER PA-0012

SOURCE TYPE CODE 7.3

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FEED/GRAIN MILLS AND ELEVATORS 2.00 MMBU/YR

COMPANY NAME/SITE LOCATION BROOKPORT BARGE POINT, INC P.O. BOX 147 BROOKPORT, IL 62910 MASSAC COUNTY

DETERMINATION IS FOR A NEW SOURCE. PERMIT NO. C8008003 ILLINOIS EPA CHRIS ROMAIN (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 04/03/81 ESTIMATED DATE OF START-UP-- 1981 (217)-782-2113 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
RECEIVING	2.00 MMBU/YR	PM	35.0000 LB/H ASPIRATION TO BAGHOUSE ENCLOSURE	SIP 90.00
HANDLING	2.00 MMBU/YR	PM	5.2500 LB/H	SIP
LOAD-OUT	2.00 MMBU/YR	PM	10.5000 LB/H ASPIRATION TO BAGHOUSE DEADBOX ON TIP OF SPOUT	SIP 90.00
CLEANING		PM	2.1000 LB/H	SIP
DRYING		PM	0.8400 LB/H BUILT IN SCREENS	SIP 90.00

NOTES ----- NON-MAJOR PROJECT DEEMED CONTROVERSIAL DUE TO PUBLIC INTEREST. PUBLIC HEARING HELD.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP REVIEW STATUS: 04/01/1983 04/04/1984 ID NUMBER IL-0012 SOURCE TYPE CODE 7.3

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

30.00 MMBU/YR

FEED/GRAIN MILLS AND ELEVATORS

SOURCE TYPE/SIZE

SAVAGE, MN

COMPANY NAME/SITE LOCATION BUNGE CORP.

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

DATE OF PERMIT ISSUANCE-- 01/08/82

PERMIT NO. 393A-81-1-6

ESTIMATED DATE OF START-UP-- 1982

MINNESOTA PCA

GEORGE VASILAKES

(612)-296-7267

(AGENCY)

(AGENCY CONTACT PERSON)

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

BARGE LOADOUT CONVEYOR/LOADOUT

30.00 MMBU/YR

PM

31.0000 T/YR

BAGHOUSE

DUST SUPPRESSOR

BACT 99.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

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ID NUMBER MN-0003

SOURCE TYPE CODE

7.3

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FEED/GRAIN MILLS AND ELEVATORS
 COMPANY NAME/SITE LOCATION CAPGILL, INC.
 3201 NEEDMORE RD.
 DAYTON, OH 45415 MONTGOMERY COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. 08-124
 DETERMINATION MADE BY RAPCA - DAYTON, OH
 (AGENCY)

AMY WRIGHT
 (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/19/78
 ESTIMATED DATE OF START-UP-- 1981
 (513)-225-4435
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL BOILER	567.00 M ³ STU/H	PH	0.0250 LB/M ³ STU BAGHOUSE	BACT 99.00
		SO2	1.2000 LB/M ³ STU LOW SULFUR COAL	BACT
		NOX	0.4900 LB/M ³ STU	

NOTES -----
 SINGLE SOURCE (CRSTER) DISPERSION MODEL USING HOURLY MET. DATA TO ESTIMATE POLLUTANTS' IMPACTS. (ONE YEAR MET. DATA.)

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983 02/13/1984
 SOURCE TYPE CODE 7.3

ID NUMBER OH-0011

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FEED/GRAIN MILLS AND ELEVATORS

COMPANY NAME/SITE LOCATION CARGILL, INC.

CHESAPEAKE, VA

DETERMINATION IS BACT
PERMIT NO. 60277
DETERMINATION MADE BY

VIRGINIA APCB
(AGENCY)

JAMES LEHAN
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/04/84
ESTIMATED DATE OF START-UP-- 1984
(804)-786-1433
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL-FIRED	106.00 MMBTU/H	PM	0.0500 LB/MMBTU BAGHOUSE	PSD 99.59 PSD
		SO2	1.5200 LB/MMBTU LOW S COAL, 1%	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS:

SOURCE TYPE CODE 7.3

ID NUMBER VA-0027

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FEED/GRAIN MILLS AND ELEVATORS

COMPANY NAME/SITE LOCATION CARGILL, INC.
PIER 86 SEATTLE, WA 98119

DETERMINATION IS BACT PERMIT NO. N/C 2227
DETERMINATION MADE BY PUGET SOUND APCA
(AGENCY) HARRY MATTERS
(AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 03/20/81
ESTIMATED DATE OF START-UP-- 1981
(206)-344-7334
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY 3000.00 T/H
MATERIAL HANDLING, LOADOUT SPOU* 3000.00 T/H
POLLUTANT EMISSION LIMITS ... & BASIS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF

LAHINAR FLOW / DUST SUPPRESSOR

PH

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/13/1984

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ID NUMBER WA-0012

SOURCE TYPE CODE 7.3

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FEED/GRAIN MILLS AND ELEVATORS 143.70 MMBTU/H

COMPANY NAME/SITE LOCATION CENTRAL SOYA CO., INC. CHATTANOOGA, TN

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 0460-10200202-151
DETERMINATION MADE BY CHATTANOOGA-HAMILTON CO. APCB HARVEY RICE
(AGENCY) (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/26/83
ESTIMATED DATE OF START-UP-- 1985
(615)-867-4321
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMITTED EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

BOILER, FBC, COAL FIRED 143.10 MMBTU/H

PH	0.0350 LB/MMBTU	FABRIC FILTER	LAER
SO2	0.4410 LB/MMBTU	FLUIDIZED BED	99.83 BACT
NOX	0.6000 LB/MMBTU	FLUIDIZED BED	90.70 BACT
CO	0.1660 LB/MMBTU	FABRIC FILTER	20.00 BACT
VOC	6.3000 LB/H	FABRIC FILTER	100.00 BACT
BE	0.0000 LB/H	FABRIC FILTER	100.00 BACT
PB	0.0000 LB/H	FABRIC FILTER	99.95 BACT
F	0.0017 LB/H	FABRIC FILTER	99.95 BACT
HG	0.0027 LB/H	FABRIC FILTER	99.95 BACT
PH	0.0100 GR/DSCF	FABRIC FILTER	99.95 BACT

ASH HANDLING, COAL LIMESTONE 150000.00 LB/H

NOTES -----
ALL DETERMINATIONS WERE BACT DUE TO PSD REQUIREMENTS EXCEPT PH WHICH WAS EVALUATED FROM THE PERSPECTIVE OF A POTENTIAL SIGNIFICANT IMPACT ON A NON- ATTAINMENT AREA.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/26/1984

ID NUMBER TN-0019

SOURCE TYPE CODE 7.3

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

2.10 MM T/YR

FEED/GRAIN MILLS AND ELEVATORS

SOURCE TYPE/SIZE

COMPANY NAME/SITE LOCATION INTERSTATE GRAIN CORP.

, TX

MUECES COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 9228

DETERMINATION MADE BY

TEXAS ACB
(AGENCY)

GARY WALLIN
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/27/83
ESTIMATED DATE OF START-UP-- 1983
(512)-451-5711
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

ELEVATOR, GRAIN

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

PM 162.1000 T/YR

BAGHOUSE & CYCLONES

BACT
99.00

NOTES

SIC = 5153. PERMIT IS FOR REPLACEMENT OF 4 ELEVATOR LEGS WITH 4 HIGHER CAPACITY LEGS. NEW CONTROL EQUIPMENT RESULTED IN AN OVERALL EMISSIONS REDUCTION.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 05/04/1984

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ID NUMBER TX-0138

SOURCE TYPE CODE 7.3

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FEED/GRAIN MILLS AND ELEVATORS 250.00 T/WEEK

COMPANY NAME/SITE LOCATION MAXIM FARMS , TX WHARTON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. C-9245
 DETERMINATION MADE BY TEXAS ACB
 (AGENCY) GARY WALLIN
 (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 01/12/83
 ESTIMATED DATE OF START-UP-- 1983
 (512)-451-5711
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
 RECEIVING,GRINDING,HANDLING,MIX# 250.00 T/WEEK PM 2.3000 T/YR ENCLOSED OPER.,REC.,CONV.,MIX.,GRIND.,LDOT

NOTES -----
 ENCLOSED ELEVATOR LEG, AUGERS AND GRAVITY SPOUTS ARE USED.PLUS RECEIVING PIT AND LOADOUT LOCATED UNDER ELEVATED STORAGE BINS A RE ENCLOSED. RURAL, ISOLATED LOCATION.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 05/04/1984
 ID NUMBER TX-0112
 SOURCE TYPE CODE 7.3

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

15000.00 BU/H

FEED/GRAIN MILLS AND ELEVATORS

SOURCE TYPE/SIZE

COMPANY NAME/SITE LOCATION MONTE CHRISTO GRAIN CO.

, TX

HIDALGO COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 9222

DETERMINATION MADE BY TEXAS ACB

(AGENCY)

RALPH BOHLER

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/07/82

ESTIMATED DATE OF START-UP-- 1983

(512)-451-5711

(PHONE)

PROCESSES SUBJECT

TO THIS PERMIT

RECEIVING PIT, 2 EA

THROUGHPUT

CAPACITY

7500.00 BUSHEL/H

POLLUTANT

EMITTED

PM

0.1690 LB/T

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

ENCLOSED

LEGS/AUGERS/UP&DN SPOUTS - TRANSF GR*

... & BASIS

... PCT EFF

HANDLING

7500.00 BUSHEL/H, 2*

LA'DOUT SPOUTS

7500.00 BUSHEL/H, 2*

PM

NONE

PM

0.0900 LB/T

NOTES

SIC CODE 5153

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 05/04/1994

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ID NUMBER TX-0118

SOURCE TYPE CODE

7.3

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE

COMPANY NAME/SITE LOCATION ANHEUSER-BUSCH, INC.

VAN NUYS, CA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. (REGION FILE NO.) LA-78-18
 DETERMINATION MADE BY EPA REGION IX
 (AGENCY)

JIM HANSON
 (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/01/79
 ESTIMATED DATE OF START-UP--
 (415)-974-8038
 (PHONE)

PROCESSES SUBJECT
 TO THIS PERMIT

STEAM BOILERS, 2 EA

THROUGHPUT
 CAPACITY

125000.00 LB/H

POLLUTANT
 EMITTED

SO2

NOX

EMISSION LIMITS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION

0.2100 % S FUEL OIL
 SULFUR IN FUEL

0.2700 LB/MMBTU
 0.4700 LB/MMBTU

LOW NOX BURNERS
 DERATING OVERSIZED BOILERS & TWO STAGE COMBUST*

... & BASIS
 ... PCT EFF

BACT

LAER

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER CA-0010

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983 04/04/1984

SOURCE TYPE CODE 7.4

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE
 FERMENTATION AND ALCOHOLIC BEVERAGES
 10.00 HMBBL/YR

COMPANY NAME/SITE LOCATION
 ANHEUSER-BUSCH, INC.
 721 PESTALOZZI ST.
 ST. LOUIS, TX 63118
 HARRIS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. (REGION FILE NO.) PSD-TX-246
 DETERMINATION MADE BY EPA REGION VI
 (AGENCY)
 RAGAN BROYLES
 (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE--
 ESTIMATED DATE OF START-UP--
 (214)-767-1594
 (PHONE)

PROCESSES SUBJECT
 TO THIS PERMIT
 COAL BOILERS, 3
 THROUGHPUT
 CAPACITY
 176.00 HMBTU/H EA
 POLLUTANT
 EMISSION LIMITS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
 ... PCT EFF

CO 11.2000 LB/H EA
 0.0630 LB/HMBTU
 NONE REQUIRED
 NOX 125.0000 LB/H EA
 0.7000 LB/HMBTU
 COMBUSTION CONTROL
 OIL BOILERS, 3
 77.00 HMBTU/H EA

CO 2.7000 LB/H EA
 0.0350 LB/HMBTU
 NONE REQUIRED
 NOX 32.1000 LB/H EA
 0.4200 LB/HMBTU
 COMBUSTION CONTROL

NOTES
 ONLY ONE OIL FIRED BOILER MAY BE OPERATED WHEN ALL THREE COAL FIRED BOILERS ARE IN OPERATION.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 06/01/1983
 ID NUMBER TX-0074
 SOURCE TYPE CODE 7.4
 PAGE 8- 785

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE
 FERMENTATION AND ALCOHOLIC BEVERAGES
 98.00 MMBTU/H
 COMPANY NAME/SITE LOCATION ANHEUSER-BUSCH, INC.
 WILLIAMSBURG, VA
 JAMES CITY COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. 79VA15
 DETERMINATION MADE BY EPA REGION III
 (AGENCY)
 VERNON BUTLER
 (AGENCY CONTACT PERSON)
 (215)-597-2711
 (PHONE)
 DATE OF PERMIT ISSUANCE-- 06/16/80
 ESTIMATED DATE OF START-UP-- 1981

PROCESSES SUBJECT TO THIS PERMIT
 THROUGHPUT CAPACITY
 98.00 MMBTU/H
 POLLUTANT EMISSION LIMITS
 CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
 ... PCT EFF
 SO2 1.0700 LB/MMBTU
 1% SULFUR IN OIL.
 PM
 TSP NOT SIGNIFICANT
 BACT

NOTES
 INSTALLATION OF A BACKUP BOILER. NO ADVERSE AIR QUALITY IMPACT -- NET IMPROVEMENT DUE TO NEW UNIT. EXISTING UNITS USE 2.5% S. OIL.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER VA-0007
 SOURCE TYPE CODE 7.4
 PAGE G- 786

05/21/1985

FERMENTATION AND ALCOHOLIC BEVERAGES

221.00 HMBTU 3 EA

[illegible]

ELKTON, VA

ROCKINGHAM COUNTY

DETERMINATION IS FACT FOR A NEW SOURCE.

DATE OF PERMIT ISSUANCE-- 03/19/81
ESTIMATED DATE OF START-UP--

PERMIT NO. 60VA01
DETERMINATION MADE BY
EPA REGION III
(AGENCY)

EILEEN GLEN
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

[illegible]

ATION	...	& BASIS
	...	PCT EFF

BOILER, COAL FIRED, 3

221.00 H-18TU EA

PH	0.0500	LB/H ₂ STU
	BAGHOUSE	&FGD
S02	0.2400	LB/H ₂ STU
	BAGHOUSE	&FGD
NOX	0.6000	LB/H ₂ STU
CO	0.4000	LB/H ₂ STU
VOC	0.0200	LB/H ₂ STU
VF	5.0000	% OPACITY

BACT 99.00

COAL RECEIVING

2.8600 LB/M
5.0000 % OPACITY
FABRIC FILTER COLLECTOR

BACT
99:90

COAL BUYERS

PH 1.2900 LB/H 5.0000 % OPACITY FABRIC FILTER COLLECTOR

BACT
99-95

SCREENING & HILLING SYS. BARLEY#

PM 0.6500 LB/M 5.0000 % OPACITY EABPTC FID

BACT
99.50

STCF STOP.; SCREEN AND MILLING

FABRIC FILTER COLLECTOR

99.50

5.0000 % OPACITY
FABRIC F

99.50

FABRIC FILTER COLLECTOR

99.50

(*) INDICATES RATION WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE	TYPE	CODE	7.4
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
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21	21	21	21
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27	27	27	27
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30	30	30	30
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44	44	44	44
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92	92	92	92
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94	94	94	94
95	95	95	95
96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

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(CONTINUED) COPS CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SPENT GRAIN DRYER		PM	0.1100 LB/H 5.0000 % OPACITY WET SCRUBBING SYSTEM	BACT 90.00
DRY SPENT GRAIN STOR. AND HAND.*		PM	1.6400 LB/H 5.0000 % OPACITY FABRIC FILTER COLLECTOR	BACT 99.95
PELLET BULK STORAGE		PM	0.7300 LB/H 5.0000 % OPACITY FABRIC FILTER COLLECTOR	BACT 99.95
FILTER MEDIA DRYER		PM	0.1400 LB/H 5.0000 % OPACITY WET SCRUBBING SYSTEM	BACT 99.50
HANDLING SYS, DIATOMACEOUS EARTH		PM	0.6500 LB/H 5.0000 % OPACITY FABRIC FILTER COLLECTOR	99.80
LINE STOR. & HANDLING SYS.		PM	0.6500 LB/H 5.0000 % OPACITY FABRIC FILTER COLLECTOR	BACT 90.00
COATING OVEN, CAN PLANT		VOC	11.0000 LB/H CATALYTIC INCINERATOR	BACT 90.00
COATING OVEN, CAN PLANT		VOC	5.0000 LB/H	BACT
STORAGE PILE, COAL ACTIVE		PM	0.4600 LB/H 5.0000 % OPACITY WET SUPPRESSION SYSTEM	BACT
COAL DEAD STORAGE PILES		PM	0.2300 LB/H 5.0000 % OPACITY CHEMICAL WETTING AGENTS	BACT
STORAGE, COAL RECLAIM HOPPER AC*		PM	2.8600 LB/H 5.0000 % OPACITY FABRIC FILTER COLLECTOR	BACT 99.95

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 7.4

ID NUMBER VA-0004

(CONTINUED) COORS CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL RECLAIM FROM DEAD STORAGE				
COAL CAR THAWING HEATER		PM	0.4600 LB/H	BACT
		PM	0.1600 LB/H	BACT
		SO2	3.0000 LB/H	BACT
			.3% LOW SULFUR FUEL	
		VOC	1.0000 LB/H	BACT
		NOX	2.0000 LB/H	BACT
		CO	1.0000 LB/H	BACT
ASH SILO HANDLING SYS		PM	0.3200 LB/H	BACT
			5.0000 % OPACITY	99.95
			FABRIC FILTER COLLECTOR	
PNEUMATIC SYS, STARCH UNLOAD		PM	1.2900 LB/H	BACT
			5.0000 % OPACITY	99.90
			CYCLONE SEPARATOR + BAGHOUSE	
STORAGE SYS, STARCH BRENNHOUSE		PM	1.2900 LB/H	BACT
			5.0000 % OPACITY	99.90
			CYCLONE SEPARATOR & BAGHOUSE	
DISTIL. SYS, STARCH BRENNHOUSE		PM	0.6500 LB/H	BACT
			5.0000 % OPACITY	99.90
			FABRIC FILTER COLLECTOR	
REC. SYS, BARLEY, MALT, & RICE		PM	0.6500 LB/H	BACT
			5.0000 % OPACITY	99.95
			FABRIC FILTER COLLECTOR	

NOTES -----
LIMITS NEEDED TO PROTECT CLASS I INCREMENTS & INTEGRAL VISTAS. SOURCE < 1 MILE FROM THE CLASS I AREA.

(#) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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ID NUMBER VA-0004

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 7.4

05/21/1985

SOURCE TYPE/SIZE

COMPANY NAME/SITE	LOCATION	PAUL HASSON VINEYARDS

SARATOGA, CA

DETERMINATION IS BACT FOR A NEW SOURCE.

DATE OF PERMIT ISSUANCE-- 03/27/81
ESTIMATED DATE OF START-UP-- 1982
(415)-771-5000
(PHONE)

DOUG WOLF
(AGENCY CONTACT PERSON)

BAY AREA AQMD
(AGENCY)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY[illegible]

TO THIS PERMIT	THROUGHOUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C. RECIPROCATING					
	526.00 HP				

NOX 30.0000 PPM
CATALYTIC CONVERTER

NOTES -----
BURNING NATURAL GAS ONLY

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/19/1984

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=====
SOURCE TYPE CODE      7.4
=====

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ID NUMBER CA-0049

05/21/1985

SOURCE TYPE/SIZE	FERMENTATION AND ALCOHOLIC BEVERAGES	250000.00 BU/YR

COMPANY NAME/SITE LOCATION	SCHREIER HALTING CO	SHEYHOYGAN, UT

DETERMINATION IS BACK FOR A NEW SOURCE.
 PERMIT NO. ATT-04-80-60-016
 DETERMINATION MADE BY WISCONSIN DNR
 (AGENCY)
 EMILIA ESTRADA
 (AGENCY CONTACT PERSON)
 (608)-266-0244
 (PHONE)
 ESTIMATED DATE OF START-UP--
 DATE OF PERMIT ISSUANCE-- 04/21/80

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF

KILN				

CONVEY & HANDLE	PM	11.1100 LB/H	99.90
	PM	11.1100 LB/H	
		3 EXISTING BAGHOUSES & FILTERS SETUP TANKS/PROD SPOUT/DUST STO	

NOTES

PRODUCTION NOT TO EXCEED 250000 BUSHEL MALT/YEAR, NATURAL GAS ONLY TO FREE RUN, NOT SUBJECT TO PSD

*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW	POST STARTUP
REVIEW STATUS: 04/01/1983	
ID NUMBER WI-0021	SOURCE TYPE CODE 7.4

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FERTILIZER PLANTS 1429.00 T/D P205
 COMPANY NAME/SITE LOCATION AGRICO CHEMICAL CO. BARTON, FL 33630 POLK COUNTY
 P.O. BOX 1969

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. FL-0016 DATE OF PERMIT ISSUANCE-- 03/20/80
 DETERMINATION MADE BY FLORIDA DER ESTIMATED DATE OF START-UP-- 1982
 (AGENCY) WILLARD HANKS (904)-488-1344
 (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT THROUGHPUT EMISSION LIMITS ... & BASIS
 TO THIS PERMIT CAPACITY CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
 PHOSPHORIC ACID PROD. LINE 1429.00 T/D P205 F 0.0200 LB/T P205 NSPS
 SCRUBBER

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983 01/25/1984
 ID NUMBER FL-0016 SOURCE TYPE CODE 7.6
 PAGE G- 792

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FERTILIZER PLANTS

COMPANY NAME/SITE LOCATION AGRICO CHEMICAL CO.
P.O. BOX 1469

BARTON, FL 33830

POLK COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. PSD-FL-061
DETERMINATION MADE BY

FLORIDA DER
(AGENCY)

WILLARD HANKS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/21/81
ESTIMATED DATE OF START-UP-- 1982
(904)-488-1344
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT
DIAMMONIUM PHOSPHATE

THROUGHPUT
CAPACITY

75000.00 T/YR

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

PH

4.3000 LB/H

SCRUBBER

F

0.5000 LB/H

SCRUBBER

BACT
96.00
NSPS
99.90

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 01/25/1984

ID NUMBER FL-0019

SOURCE TYPE CODE 7.6

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FERTILIZER PLANTS

COMPANY NAME/SITE LOCATION CALIF. AMMONIA (CALAMCO)

LANTHROP, CA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. SJ80-07
DETERMINATION MADE BY EPA REGION IX
(AGENCY)

DATE OF PERMIT ISSUANCE-- 05/08/81
ESTIMATED DATE OF START-UP--
(615)-974-8223
(PHONE)

DON HARVEY
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

NITRIC ACID PLANT

250.00 T/D

NOX

210.0000 PPM

3.0000 LB/T 100% HNO3

EXTENDED ABSORPTION COLUMN

BACT

94.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983 04/04/1984

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ID NUMBER CA-0001

SOURCE TYPE CODE 7.6

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FERTILIZER PLANTS

1.80 MM/HR

COMPANY NAME/SITE LOCATION CHEVRON CO., USA

ROCK SPRINGS, WY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. CT-550

DATE OF PERMIT ISSUANCE-- 06/13/84

DETERMINATION MADE BY

WYOMING AGD

ESTIMATED DATE OF START-UP-- 1986

(AGENCY)

CHUCK COLLINS

(AGENCY CONTACT PERSON)

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

ACID PLANT, PHOSPHORIC, 2 EA

880.00 T/D EQUIV. *

F

0.0200 LB/T EQUIV. P205

NSPS

99.90

ACID PLANT, SUPERPHOSPHORIC

300.00 T/D EQUIV. *

F

0.0100 LB/T EQUIV. P205

NSPS

99.90

BOILER, 2 EA

105.60 MMBTU/H

NOX

0.2000 LB/MMBTU FUEL

SIP

DRYER, CONCENTRATE

2300.00 T/D

PM

0.0070 GR/ACF

VENTURI SCRUBBERS

BACT

99.00

CONCENTRATE HANDLING

PM

0.0200 GR/ACF

BAGHOUSE

BACT

99.50

CONCENTRATE LOADOUT

PM

0.0200 GR/ACF

HOOD & BAGHOUSE

BACT

99.50

ACID PLANT, SULFURIC, 2 EA

1900.00 T/D

SO2

4.0000 LB/T ACID DESIGN

NSPS

H2S*

0.1500 LB/T ACID DESIGN

NSPS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS:

INITIAL REVIEW POST STARTUP

PAGE 6- 795

ID NUMBER WY-0015

SOURCE TYPE CODE

7.6

(CONTINUED) CHEVRON CO., USA

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
AMMONIUM PHOSPHATE PLT, 2 EA	920.00 T/D EQUIV. *	VE	10.0000 % OPACITY	BACT
		PH	0.0180 GR/ACF	98.00
		F	0.0600 LB/T EQUIV. P205	NSPS
			VENTURI SCRUBBERS	96.00
			VENTURI SCRUBBERS	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP

REVIEW STATUS:

SOURCE TYPE CODE 7.6

ID NUMBER MY-0015

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FERTILIZER PLANTS

COMPANY NAME/SITE LOCATION CONSERV, INC.
P.O. BOX 314

NICHOLS, FL 33863

POLK COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. FL-076

DETERMINATION MADE BY

FLORIDA DER
(AGENCY)

WILLARD HANKS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/02/81
ESTIMATED DATE OF START-UP-- 1983
(904)-488-1344
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

SULFURIC ACID PLANT

THROUGHPUT
CAPACITY

2000.00 T/D

POLLUTANT
EMITTED

SO2

ACI*

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

333.4000 LB/H

DOUBLE ADSORPTION

12.5000 LB/H

ACID MIST ELIMINATION

... & BASIS
... PCT EFF

NSPS

98.00

NSPS

(*) INDICATES DATUM HAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983 01/25/1984

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ID NUMBER FL-0028

SOURCE TYPE CODE

7.6

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FERTILIZER PLANTS 1750.00 T/D H2SO4

COMPANY NAME/SITE LOCATION GARDINIER, INC. TAMPA, FL 33601 HILLSBOROUGH COUNTY
U.S. 41 AND RIVERVIEW DR.

DETERMINATION IS LAER FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 07/11/80
PERMIT NO. PSD-FL-026 ESTIMATED DATE OF START-UP-- 1982
DETERMINATION MADE BY FLORIDA DER (904)-468-1344
(AGENCY) (PHONE)
WILLARD HANKS
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT THROUGHPUT EMISSION LIMITS ... & BASIS
TO THIS PERMIT CAPACITY ENITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
SULFURIC ACID PLANT #7 145833.00 LB/H
ACI# 10.9000 LB/H
SO2 291.7000 LB/H
DCUBLE ADSORPTION
NSPS
70.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 01/25/1984

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ID NUMBER FL-0019

SOURCE TYPE CODE 7.6

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FERTILIZER PLANTS

COMPANY NAME/SITE LOCATION NEW WALES CHEMICALS, INC.
P.O. BOX 1035

MULBERRY, FL 33560

POLK COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. FL-072

DETERMINATION MADE BY

FLORIDA DER
(AGENCY)

WILLARD HANKS
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/01/81
ESTIMATED DATE OF START-UP-- 1982
(904)-468-1344
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

SULFURIC ACID PLANT

THROUGHPUT
CAPACITY

2750.00 T/D H2SO4

POLLUTANT
EMITTED

SO2

458.5000 LB/H

DOUBLE ADSORPTION

ACI*

17.2000 LB/H

NSPS

70.00

NSPS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 01/25/1984

ID NUMBER FL-0027

SOURCE TYPE CODE 7.6

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FERTILIZER PLANTS 420.00 T/D

COMPANY NAME/SITE LOCATION OCCIDENTAL CHEMICAL CO.
SP 137 N. WHITE SPRINGS WHITE SPRINGS, FL 32096 HAMILTON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. PSD-FL-067 DATE OF PERMIT ISSUANCE-- 01/29/81
DETERMINATION MADE BY FLORIDA DER ESTIMATED DATE OF START-UP-- 1982
(AGENCY) WILLARD HANKS (904)-488-1344
(AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY 420.00 T/D
DEFUORINIZATION UNIT F 0.0400 LB/T
0.7000 LB/H
WET SCRUBBER
BACT 95.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993 01/25/1984
ID NUMBER FL-0005 SOURCE TYPE CODE 7.6
PAGE 6- 600

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FERTILIZER PLANTS 404000.00 T/YR PHOSPHORIC FERT

COMPANY NAME/SITE LOCATION USS AGRI-CHEMICALS P. O. BOX 150 BARTON (FT. MEADE COMPLEX), FL 30930 POLK COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. PSD-FL-064
 DETERMINATION MADE BY FLORIDA DER (AGENCY)
 WILLARD HARKS (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 04/01/81
 ESTIMATED DATE OF START-UP-- 1981
 (904)-488-1344 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY 1.35 MM T/YR
 SULFURIC ACID PROD. 40.0000 LB/T 100% H2SO4
 PHOSPHORIC ACID PROD. 0.0200 LB/T P2O5
 DOUBLE ADSORPTION SCRUBBERS

502 40.0000 LB/T 100% H2SO4
 F 0.0200 LB/T P2O5
 NSPS 70.00
 NSPS 95.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983 01/25/1984
 ID NUMBER FL-0001
 SOURCE TYPE CODE 7.6

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FERTILIZER PLANTS 115.00 T/H

COMPANY NAME/SITE LOCATION W R GRACE & CO P.O. BOX 310 BARTON, FL 33601 POLK COUNTY

DETERMINATION IS NSPS FOR A MODIFIED SOURCE.
PERMIT NO. PSD-FL-068
DETERMINATION MADE BY WILLARD MAINS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/01/81
ESTIMATED DATE OF START-UP-- 1984
(904)-488-1344 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DIAMMONIUM PHOSPHATE PLANT	115.00 T/H	F	0.0600 LB/T P205 FEED TWO PACKED SCRUBBERS	NSPS 95.00
DRYER		S02	39.0000 LB/H LOW SULFUR OIL	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
SOURCE TYPE CODE 7.6

ID NUMBER FL-0008

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FERTILIZER PLANTS

COMPANY NAME/SITE LOCATION MYCON CHEMICALS

CHEYENNE, WY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. CT-564

DETERMINATION MADE BY

WYOMING AGD

(AGENCY)

CHUCK COLLINS

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/27/84

ESTIMATED DATE OF START-UP--

(307)-777-7391

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... BASIS

... PCT EFF

REFORMER, AMMONIA PLT

141.00 MTBTU/H

NOX

0.2000 LB/MTBTU

LOW NOX BURNER

SIP

BOILER, AMMONIA PLT

26.00 MTBTU/H

NOX

0.2300 LB/MTBTU

SIP

ACID PLT #1, NITRIC

100.00 T/D

NOX

6.0000 LB/H SEE NOTE #2

TEST

ACID PLT #2, NITRIC

100.00 T/D

NOX

6.0000 LB/H SEE NOTE #2

TEST

ACID PLT #3, NITRIC

470.00 T/D

NOX

3.0000 LB/T ACID CATALYTIC NOX ABATOR

NSPS

90.00

NEUTRALIZER, H.D.AMMON. NITRATE*

250.00 T/D

PH

19.7000 LB/H SEE NOTE #2

SIP

EVAPORATOR, H.D.AMMON. NITRATE *

250.00 T/D

PH

19.7000 LB/H SEE NOTE #2

SIP

PRILL TOWER, H.D.AMMON. NITRATE*

250.00 T/D

PH

54.0000 LB/H SEE NOTE #2

TEST

COOL. DRUM SCRUB, H.D.AMMON. NI*

250.00 T/D

PH

19.7000 LB/H SEE NOTE #2

SIP

PRILL TOWER, L.D.AMMON. NITRATE*

900.00 T/D

PH

0.7400 LB/T NH4NO3

2 STAGE WET SCRUBBER

BACT

50.00

WASH TOWER, L.D.AMMON. NITRATE *

600.00 T/D

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

PAGE G- 003

ID NUMBER WY-0016

SOURCE TYPE CODE 7.6

(CONTINUED) WYCON CHEMICALS

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
BOILER, UREA PLT	26.00 MBTU/H	PM	0.7400 LB/T NH4NO3 DRY CYCLONE PRECOLLECTOR & WET SCRUBBER	BACT 96.00
EVAP/CONCENTRATOR, UREA PLT	180.00 T/D	NOX	0.2300 LB/MBTU	SIP
PRILL TOWER, UREA PLT	42.00 T/H	PM	15.8000 LB/H SEE NOTE #2	SIP
		PM	43.1000 LB/H SEE NOTE #2	SIP

NOTES -----
NOTE #1 - BASED ON TEST RESULTS. NOTE #2 - EXISTING SOURCES.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
PAGE G- 804

INITIAL REVIEW POST STARTUP
REVIEW STATUS:
ID NUMBER WY-0016
SOURCE TYPE CODE 7.6

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE STARCH MANUFACTURING

10.50 T/H

COMPANY NAME/SITE LOCATION BROCK CANDY CO.

CHATTANOOGA, TN

HAMILTON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 0300-30201699-001

DETERMINATION MADE BY

CHATTANOOGA-HAMILTON CO. APCB HARVEY RICE

(AGENCY)

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/15/83

ESTIMATED DATE OF START-UP-- 1984

(615)-867-4321

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

HOGUL, STARCH

THROUGHPUT
CAPACITY

21000.00 LB/H

POLLUTANT
EMITTED

PM

0.0100 GR/DSCF

FABRIC FILTER

21000.00 LB/H

ORIER-COOLER, STARCH

PM

0.3500 LB/H

FABRIC FILTER

99.90

BACT

99.90

NOTES

THE 0.35 LB/H LIMITATION IS THE TOTAL ALLOWED FROM BOTH UNITS COMBINED. SIC CODE IS 2071.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/26/1984

ID NUMBER TN-0016

SOURCE TYPE CODE 7.7

05/21/1985

APPENDIX -- DETAILED SOURCE LISTING

```

=====
SOURCE TYPE/SIZE          STARCH MANUFACTURING          COCK COUNTY
=====
COMPANY NAME/SITE LOCATION  6400 ARCHER RD          BEDFORD PARK, IL 60501
=====
DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. 81040028-81040039
DETERMINATION MADE BY ILLINOIS EPA
                        (AGENCY)
=====
PROCESS SUBJECT            THROUGHPUT          EMISSION LIMITS          ... & BASIS
TO THIS PERMIT            CAPACITY           CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
=====
NEW FEED DRYER            PH 6.4000 LB/H     CYCLONES, HIGH EFF.      LAER
SUGAR LOADING STATION     PH 0.3900 LB/H     BAGHOUSE                  LAER
STEEP VENTS                PH 0.6000 LB/H     WET SCRUBBER              LAER
GERM CAKE TRANSPORT       PH 1.6000 LB/H     CYCLONES                   LAER
FEED TRANSPORT            PH 2.0000 LB/H     CYCLONES                   LAER
GERM DRYER TRANSPORT      PH 2.3000 LB/H     MULTICLONES                LAER
DUST BIN PICKUPS          PH 1.2000 LB/H     SCRUBBER                   LAER
GERM FLAKE TRANSPORT      PH 4.5900 LB/H     CYCLONE (2 STAGE) & SCRUBBER
=====

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INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983 04/04/1984
 SOURCE TYPE CODE 7.7

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

ID NUMBER IL-0010

(CONTINUED) CORN PRODUCTS

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GLUTEN DRYER		PM	2.1000 LB/H CYCLONES, HIGH EFF.	LAER
DUST PICKUP-ELEVATOR & CONV.		PM	1.5000 LB/H CYCLONES, HIGH EFF.	LAER
PELLET DUST COLLECTION SYS.		PM	1.1300 LB/H CYCLONES, 2 STAGE	LAER
GLUTEN DRYER		PM	1.1400 LB/H CYCLONES, HIGH EFF.	LAER

NOTES

LAER EMISSION LIMITS STATED FOR MAXIMUM EQUIPMENT THROUGHPUT. EMISSION RATES TO BE ADJUSTED PROPORTIONATELY FOR OPERATIONAL THROUGHPUT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993 04/04/1994
SOURCE TYPE CODE 7.7

ID NUMBER IL-0010

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE SUGAR CANE PROCESSING

195.00 M³TU/H

COMPANY NAME/SITE LOCATION ATLANTIC SUGAR ASSOC.
P.O. DRAWER B

PALM BEACH, FL 33430

PALM BEACH COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PSD-FL-079
DETERMINATION MADE BY FLORIDA DER
(AGENCY)

DATE OF PERMIT ISSUANCE-- 10/06/81
ESTIMATED DATE OF START-UP-- 1982
(904)-488-1344
(PHONE)

BOB KING
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... BASIS
... PCT EFF

BOILER, BAGASSE

54681.00 LB/H BAGASSE

PM

0.1500 LB/M³TU INPUT
JOY TURBULAIRE MODIFIED

BACT
92.00

BOILER, NO. 6 OIL

3.13 BBL/H #6 OIL

SO2

1.0000 % S OIL
FUEL ANALYSIS

BACT

VOC

LAER DETERMINATION

30.0000 % OPACITY
SEE NOTE

BACT

VE

BOILER, BAGASSE

54681.00 LB/H BAGASSE

PM

0.1500 LB/M³TU INPUT
IMPINGER-SCRUB SIZE 90 TYPE D

BACT

VOC

2.0000 LB/T BAGASSE FIRED

SCC

NOTES

THE BOILER IS A FOSSIL FUEL FIRED UNIT MODIFIED TO BURN BAGASSE. OIL IS TO BE USED ONLY AS A SUPPLEMENTARY FUEL. OPERATION IS SEASONAL.
VE LIMIT MAX. 30% OPACITY EXCEPT THAT 40% OPACITY IS PERMISSIBLE FOR NOT MORE THAN 2 MINUTES IN ANY ONE HOUR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983 01/25/1984

PAGE 6- 803

ID NUMBER FL-0011

SOURCE TYPE CODE 7.0

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE SUGAR CANE PROCESSING 200.00 MBTU/H
 COMPANY NAME/SITE LOCATION OSCEOLA FARMS CO.
 EAST OF PAHOKEE US-90 PAHOKEE, FL 33476 PALM BEACH COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. FL-0012
 DETERMINATION MADE BY FLORIDA DER (AGENCY)
 BOB KING (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 10/28/81
 ESTIMATED DATE OF START-UP-- 1982
 (1904)-460-1344 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, BAGASSE	60000.00 LB/H BAGASSE	PM	0.1500 LB/MBTU INPUT WET SCRUBBER JOY TYPE D TURBULAIRE	BACT 93.90
BOILER, NO. 6 OIL	1.10 BBL/H #6 OIL	PM	0.1000 LB/MBTU INPUT SCRUBBER	BACT 93.90
		SO2	1.0000 % MAX S OIL	BACT
		VOC	2.0000 LB/T	SCC
		VE	LAER DETERMINATION - SEE NOTE 30.0000 % OPACITY SEE NOTE	BACT

NOTES
 LAER SAME AS DETERMINED FOR ATLANTIC SUGAR ASSOCIATION. OPERATION IS SEASONAL NOVEMBER THROUGH MARCH. NO.6 OIL IS USED AS A SUPPLEMENTARY FUEL.
 VE LIMITS MAX. 30% OPACITY EXCEPT THAT 40% OPACITY IS PERMISSIBLE FOR NOT MORE THAN 2 MINUTES IN ANY ONE HOUR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 PAGE G- 809
 ID NUMBER FL-0012
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983 01/25/1984
 SOURCE TYPE CODE 7.8

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE SUGAR CANE PROCESSING 240000.00 LB/H

COMPANY NAME/SITE LOCATION SUGAR CANE GROWERS COOP. P.O. BOX 666

BELLE GLADE, FL 33430

PALM BEACH COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-FL-077
DETERMINATION MADE BY FLORIDA DER (AGENCY)

DATE OF PERMIT ISSUANCE-- 05/07/81
ESTIMATED DATE OF START-UP-- 1982
(904)-468-1344
(PHONE)

BOB KING
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT THROUGHPUT CAPACITY
TO THIS PERMIT
BOILER, BAGASSE/RESIDUE, #6 COM* 264000.00 LB/H

POLLUTANT EMISSION LIMITS
EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

PM	0.1500 LB/H*BTU	75.6000 LB/H	WET SCRUBBER	BACT
S02	14.0000 T/D	LOW S OIL		90.00 BACT
CO	140.0000 LB/H	326.0000 T/YR	EQUIPMENT DESIGN & OPERATION	BACT
VOC	140.0000 LB/H	325.0000 T/YR	EQUIPMENT DESIGN & OPERATION	BACT
NOX	123.0000 LB/H	209.0000 T/YR	EQUIPMENT DESIGN & OPERATION	BACT
PM	0.1000 LB/H*BTU	SCRUBBER		BACT
S02	1.0000 % S OIL	FUEL FLOW		90.00 BACT
VOC	30.0000 % OPACITY	OIL CONSUM. NOT OVER 42 EBL/H		90.00 BACT
VE	SEE NOTE	COMBUSTION		90.00 BACT

BOILER, BAGASSE/RESIDUE, #8 COM* 240000.00 LB/H STEAM

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 01/25/1984
SOURCE TYPE CODE 7.8

ID NUMBER FL-0010

(CONTINUED) SUGAR CANE GROWERS COOP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAHE PROCESS (CONTINUED)				

NOTES

(1) RESIDUE IS A BYPRODUCT OF THE FURFURAL PROCESS. (2) LAER SAHE AS DETERMINED FOR ATLANTA SUGAR ASSOCIATION. #6 OIL IS USED AS A SUPPLEMENTARY FUEL. OPERATION IS SEASONAL.
VE LIMIT MAX. 30% OPACITY EXCEPT THAT 40% OPACITY IS PERMISSIBLE FOR NOT MORE THAN 2 MIN. IN ANY ONE HOUR. VOC LIMIT AND EFFIC
IENCY TO BE DETERMINED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FATS/VEGETABLE OILS

COMPANY NAME/SITE LOCATION A.E. STALEY

CHAMPAIGN, IL

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 03 05 0091
DETERMINATION MADE BY ILLINOIS EPA
(AGENCY)

DATE OF PERMIT ISSUANCE-- 11/14/83
ESTIMATED DATE OF START-UP-- 1985
(217)-782-2113
(PHONE)

CHRIS ROMAIN
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY 130.00 MMBTU/H

POLLUTANT
EMITTED

... & BASIS
... PCT EFF

BOILER

PH	0.0600 LB/MMBTU	BACT	99.00
	FABRIC FILTER	BACT	99.00
SO2	1.2000 LB/MMBTU	BACT	99.00
NOX	0.6000 COAL SUPPLY	BACT	99.00
	EQUIPMENT DESIGN & CO MONITOR		
PH	0.0300 GR/DSCF	BACT	99.00
	FABRIC FILTER		

COAL & ASH HANDLING, STORAGE

NOTES -----

ALSO STATE ID NUMBER 019 827 AAA.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 08/21/1984
ID NUMBER IL-0027
SOURCE TYPE CODE 7.9

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FATS/VEGETABLE OILS 95.00 HMBTU/H

COMPANY NAME/SITE LOCATION GOLD KIST INC., GOLD KIST SOY PLANT VALDOSTA, GA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 2075-092-6086-C

DETERMINATION MADE BY

GEORGIA EPD
(AGENCY)

SUE MCFATHER
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/09/81
ESTIMATED DATE OF START-UP-- 1982
(404)-656-4867
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

HELLON TYPE A BOILER

THROUGHPUT
CAPACITY 95.00 HMBTU/H

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

PM

0.1000 LB/HMBTU

2 STAGE MECHANICAL COLL./FAB. FILTER

NSPS
≤0.00
NSPS

HGX

0.7000 LB/HMBTU

BURNER & FURNACE DESIGN/GOOD OPER.

VOC

EFF. BOILER DESIGN & GOOD OPER.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

PAGE 6- 613

ID NUMBER GA-0010

SOURCE TYPE CODE 7.9

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FATS/VEGETABLE OILS 360000.00 T SOYBEAN PROC.

COMPANY NAME/SITE LOCATION OWENSBORO GRAIN CO. 923 EAST 2ND ST. OWENSBORO, KY 42301 DAVIES COUNTY

DETERMINATION IS BASED FOR A MODIFIED SOURCE. PERMIT NO. C-81-70 KENTUCKY DAPC (AGENCY) DATE OF PERMIT ISSUANCE-- 08/24/81 ESTIMATED DATE OF START-UP-- 1982 (502)-554-3382 (PHONE)

BILL DILLS (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
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BOILER, COAL FIRED, & FUEL HAND*	130.50 M ³ TU/H	SO ₂	1.6000 LB/MMBTU 1% S COAL	
----------------------------------	----------------------------	-----------------	------------------------------	--

		NOX	0.7000 LB/MMBTU COMBUSTION CONTROL	
--	--	-----	---------------------------------------	--

SOLVENT EXTRACTION SYSTEM	360000.00 T/YR	VOC	2.9000 LB HEXANE/T SOYBEAN 517.2000 T/YR MINERAL OIL SCRUBBER	98.00
---------------------------	----------------	-----	--	-------

SOYBEAN PREP.	360000.00 T/YR	PM	NOT APPLICABLE	
---------------	----------------	----	----------------	--

NOTES -----
NON-ATTAINMENT AREA FOR PM - REVIEW NOT APPLICABLE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993 02/13/1984
SOURCE TYPE CODE 7.9
ID NUMBER KY-0030

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FATS/VEGETABLE OILS

COMPANY NAME/SITE LOCATION QUINCY SOYBEAN

QUINCY, IL

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 63 05 0033
DETERMINATION MADE BY ILLINOIS EPA
(AGENCY)

CHRIS ROMATNE
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/16/83
ESTIMATED DATE OF START-UP-- 1984
(217)-782-2113
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, 2	125.00 MBTU/H	PH	0.0750 LB/MBTU FABRIC FILTER	SIP 99.00 BACT
		SO2	1.6000 LB/H2STU COAL SUPPLY	BACT
		NOX	0.7000 LB/MBTU EQUIPMENT DESIGN	BACT
		CO	200.0000 PPM MAX CONTINUOUS O2 MONITORS	BACT

COAL & ASH HANDLING, STORAGE

FUGITIVE EMISSIONS

NOTES -----

NOTE - ALSO STATE ID NUMBER 001 615 AAF. PROJECT WAS NOT A MAJOR MODIFICATION FOR PH. PERMIT CONDITIONS APPLIED TO PH EMISSIONS TO LIMIT EMISSIONS TO BELOW SIP LEVELS.

ROUTINE CONTROL MEASURES

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 06/21/1984

ID NUMBER IL-0024

SOURCE TYPE CODE 7.9

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE

FRUITS/VEGETABLES PROCESSING

DES MOINES, IA

POLK COUNTY

COMPANY NAME/SITE LOCATION A.E. STALEY MFG. CO.

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO.
 DETERMINATION MADE BY CHARLES WHITHORE
 (AGENCY CONTACT PERSON)
 EPA REGION VII
 (AGENCY)
 DATE OF PERMIT ISSUANCE-- 07/30/81
 ESTIMATED DATE OF START-UP--
 (816)-374-6525
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL-FIRED, 2 EA	150.00 MMBTU/H	SO2	1.6000 LB/MMBTU MAX	BACT
			1.2000 LB/MMBTU 300 AV	
		NOX	LOW SULFUR COAL	
			0.6000 LB/MMBTU	BACT
			SPREADER STOKER, DESIGN TECH.	

NOTES -----
 COAL FIRED BOILER TO REPLACE EXISTING OIL FIRED BOILERS. ONE OIL-FIRED BOILER TO REMAIN AND BE USED ONLY AS A STAND-BY.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER IA-0004
 SOURCE TYPE CODE 7.11
 PAGE 6- 816

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE FRUITS/VEGETABLES PROCESSING

COMPANY NAME/SITE LOCATION SNACK FOODS PLANT

, CA

KERN COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. SEE NOTE
DETERMINATION MADE BY

KERN COUNTY APCD
(AGENCY)

THOMAS PAXSON
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/01/83
ESTIMATED DATE OF START-UP--
(805)-861-3682
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

BOILER

72.00 MMBTU/H

PM 1.0000 LB/H
SO2 18.2000 LB/H
NOX 100.0000 FPM AT .3% O2
0.9400 LB/H

BOILER

72.00 MMBTU/H

PM 1.0000 LB/H
SO2 18.2000 LB/H
NOX 100.0000 FPM AT .3% O2
0.9400 LB/H

POTATO CHIP FRYING

31087.00 LB/D

PM 2.9000 LB/H
WET SCRUBBER

96.50

CORN CHIP

3155.50 LB/D

PM 0.5000 LB/H

TORTILLA CHIP LINE #1

4517.60 LB/H

PM 0.7000 LB/H

TORTILLA CHIP LINE #2

4517.60 LB/H

PM 0.7000 LB/H

CORN RECEIVING & CLEANING

15000.00 LB/H

PM 0.1900 LB/H
CYCLONE

90.00

BOILER

10.00 MMBTU/H

PM 0.1500 LB/H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS:

INITIAL REVIEW POST STARTUP

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ID NUMBER CA-0061

SOURCE TYPE CODE 7.11

(CONTINUED) SNACK FOODS PLANT

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SAME PROCESS (CONTINUED)				
SUGAR RECEIVING, STORAGE, & SIF*	25000.00 LB/H	SO2	2.5000 LB/H	
		NOX	100.0000 FPM AT .3% O2 0.9000 LB/H	
		PM	0.1700 LB/H FABRIC FILTER	
FLOUR RECEIVING	25000.00 LB/H	PM	0.1900 LB/H FABRIC FILTER	
FLOUR SCREENING	13200.00 LB/H	PM	0.0900 LB/H FABRIC FILTER	

NOTES -----
507 GAL/H, 0.25 % S OIL, 72000. SCF/H NATURAL GAS. FILE A 370-014 NOTE -- PERMITS 3062001 - 3062011

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

PAGE 6- 616

INITIAL REVIEW POST STARTUP

REVIEW STATUS:

SOURCE TYPE CODE 7.11

ID NUMBER CA-0061

05/21/1985

125000.00 LB/H

CA

STANISLAUS COUNTY

DATE OF PERMIT ISSUANCE-- 03/08/84
ESTIMATED DATE OF START-UP-- 1984
(209)-571-6909
(PHONE)

MARK BOESE
(AGENCY CONTACT PERSON)

**THROUGHPUT
CAPACITY**

[illegible]

... & BASIS	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	PCT EFF
TO THIS PERMIT	CAPACITY		
BOILER, STEAM, NAT. GAS	125000.00 LB/H STEAM		

XCM

65.0000 PPM AT 3% O2

PPH AT 3% O₂
BURNER W/FLUE GAS RECIRCULATION
O₂ TRIM CONTROL, STAGED COMBUSTION

NOTES -----

OPERATES 24 H/D, 7 D/WK, 10 WK/YR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

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ID NUMBER CA-0097

SOURCE	TYPE	CODE	7.11
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20
21	21	21	21
22	22	22	22
23	23	23	23
24	24	24	24
25	25	25	25
26	26	26	26
27	27	27	27
28	28	28	28
29	29	29	29
30	30	30	30
31	31	31	31
32	32	32	32
33	33	33	33
34	34	34	34
35	35	35	35
36	36	36	36
37	37	37	37
38	38	38	38
39	39	39	39
40	40	40	40
41	41	41	41
42	42	42	42
43	43	43	43
44	44	44	44
45	45	45	45
46	46	46	46
47	47	47	47
48	48	48	48
49	49	49	49
50	50	50	50
51	51	51	51
52	52	52	52
53	53	53	53
54	54	54	54
55	55	55	55
56	56	56	56
57	57	57	57
58	58	58	58
59	59	59	59
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62	62	62	62
63	63	63	63
64	64	64	64
65	65	65	65
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78	78	78	78
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82	82	82	82
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89	89	89	89
90	90	90	90
91	91	91	91
92	92	92	92
93	93	93	93
94	94	94	94
95	95	95	95
96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL 249.00 MBTU/H

COMPANY NAME/SITE LOCATION A.E. STALEY MFG. CO. MORRISVILLE, PA BUCKS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 05/27/82

PERMIT NO. 81PA01 ESTIMATED DATE OF START-UP-- 1983

DETERMINATION MADE BY EPA REGION III (215)-597-7936

(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
249.00 MBTU/H	PM	0.1000 LB/MBTU BAGHOUSE	99.00
	SO2	0.9000 LB/MBTU FGD-DRY SCRUBBER	80.00
	NOX	0.7000 LB/MBTU COMBUSTION MODIFICATION TECH.	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

ID NUMBER PA-0026

PAGE G- 820

SOURCE TYPE CODE 7.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE

OTHER FOOD & AGRICULTURAL

2500.00 LB/H

COMPANY NAME/SITE LOCATION BLACKWELL LAND CO., INC.

, CA

KERN COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 3004006

DETERMINATION MADE BY

KERN COUNTY APCD
(AGENCY)

TOM PAXSON
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/26/84
ESTIMATED DATE OF START-UP--
(805)-861-3682
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS
... PCT EFF

PISTACHIO FINISHING OPERATION

2500.00 LB/H

PH

0.6300 LB/H

HIGH EFF. CYCLONE & 2 SOCK FILTERS

BACT
90.00

NOTES

PROCESS OPERATES 16 H/D, 5 D/WK, 35 WK/YR. HOURS OF OPERATION & THRU-PUT CAPACITY ARE PART OF THE PERMIT PROCESS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

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ID NUMBER CA-0088

SOURCE TYPE CODE 7.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL 45.00 MMBTU/YR

COMPANY NAME/SITE LOCATION BOONE VALLEY COOP. EAGLE GROVE, IA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. DATE OF PERMIT ISSUANCE-- 08/28/81
 DETERMINATION MADE BY EPA REGION VII ESTIMATED DATE OF S.ART-UP-- 1981
 (AGENCY) (816)-374-6525
 DANIEL RODRIGUEZ (PHONE)
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL-FIRED BOILER	146.50 MMBTU/H	SO2	2.0000 LB/MMBTU	
		NOX	LOW S WESTERN COAL 0.6000 LB/MMBTU	
			LEA AND STAGED COMBUSTION	
MINERAL OIL SCRUBBER		VOC	0.0700 GAL/T SOYBEAN PROC.	
MEAL DRYER		VOC	0.2500 GAL/T SOYBEAN PROC.	
MEAL COOLER		VOC	0.2000 GAL/T SOYBEAN PROC.	

NOTES -----
 VOC EMISSIONS ARE CONTROLLED BY THE DESIGN OF THE SOY EXTRACTION PROCESS EQUIPMENT WHICH MINIMIZES THE LOSS OF HEXANE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1985

PAGE G- 822
 ID NUMBER IA-0009
 SOURCE TYPE CODE 7.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

113.00 MMBTU/H EA

OTHER FOOD & AGRICULTURAL

SOURCE TYPE/SIZE

COMPANY NAME/SITE LOCATION CAMPBELL SOUP CO.

MAXTON, NC

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. NC-065

DETERMINATION MADE BY

NORTH CAROLINA DEM
(AGENCY)

MIKE SEWELL
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/25/80
ESTIMATED DATE OF START-UP--
(919)-733-6126
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

BOILER

THROUGHPUT
CAPACITY

113.00 MMBTU/H EA

POLLUTANT
EMITTED

SO2

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

1.3000 LB/MMBTU
FUEL OIL 1.2% SULFUR

BACT

... & BASIS
... PCT EFF

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER NC-0012

SOURCE TYPE CODE 7.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL

COMPANY NAME/SITE LOCATION CAMPBELL SOUP CO.

NAPOLEON, OH

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 0335010105

DETERMINATION MADE BY

OHIO EPA NND

(AGENCY)

SAMIR APAJ

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/20/81

ESTIMATED DATE OF START-UP-- 1982

(419)-352-9461

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

3 FLUIDIZED BED BOILERS

150000.00 LB/H STEAM

PM

0.1000 LB/HBTU

BAGHOUSE

99.00

SO2

1.6000 LB/HBTU

LIMESTONE INJECTION

85.00

NOX

NOTES

PERMIT CONDITIONS ALLOW INDICATED MAXIMA FOR PARTICULATE AND SO2 EMISSIONS ONLY IF THE STACK TESTS SHOW THAT THE LIMITS CANNOT BE ACHIEVED. THEY ALSO REQUIRE DECOMMISSIONING OF TWO EXISTING OIL FIRED BOILERS (CAPY. 160000 LB/H), AND INSTALLATION OF CONTINUOUS OPACITY MONITOR PER 40 CFR PART 60.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

ID NUMBER OH-0034

SOURCE TYPE CODE 7.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL 161.20 MMBTU/H
 COMPANY NAME/SITE LOCATION CARGILL, INC.
 P.O. DRAWER 878
 HARTSVILLE, SC 29550

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO. DATE OF PERMIT ISSUANCE-- 02/25/81
 DETERMINATION MADE BY SOUTH CAROLINA DHEC ESTIMATED DATE OF START-UP--
 (AGENCY) OTTO PEARSON (803)-758-5406
 (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, #5 + #6	80.60 MMBTU/H EA	PM	29.0000 LB/H FAERIC FILTER	BACT 98.00
		SO2	326.9000 LB/H 1.28% SULFUR IN COAL	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1993 04/02/1984
 ID NUMBER SC-0004
 SOURCE TYPE CODE 7.12
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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

51.20 MMBTU/H

OTHER FOOD & AGRICULTURAL

SOURCE TYPE/SIZE

MARION, OH

COMPANY NAME/SITE LOCATION CENTRAL SOYA

DATE OF PERMIT ISSUANCE-- 06/09/79
ESTIMATED DATE OF START-UP-- 1961
(419)-352-8461
(PHONE)

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 03-779
DETERMINATION MADE BY OHIO EPA NHD
(AGENCY)

SAMIR ARAJ
(AGENCY CONTACT PERSON)

... & BASIS
... PCT EFF

POLLUTANT EMISSION LIMITS
EMITTED CONTROL EQUIPMENT OR PROCESS MODIFICATION

THROUGHPUT
CAPACITY

PROCESSES SUBJECT
TO THIS PERMIT

44.00 MMBTU/H

FLUIDIZED BED BOILER

PM 0.0240 LB/MMBTU
BAGHOUSE

98.00

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 7.12

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

ID NUMBER OH-0037

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APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL

COMPANY NAME/SITE LOCATION CONTINENTAL GRAIN CO.

GUNTERSVILLE, AL

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 711-0003-X021

DETERMINATION MADE BY ALABAMA DEM

(AGENCY)

DATE OF PERMIT ISSUANCE-- 06/27/84

ESTIMATED DATE OF START-UP-- 1986

(205)-271-7661

(PHONE)

SUE ROBERTSON

(AGENCY CONTACT PERSON)

PROCESSES SUBJECT

TO THIS PERMIT

BOILER, COAL-FIRED

THROUGHPUT

CAPACITY

60.60 MBTU/H

POLLUTANT

EMITTED

PM

0.2270 LB/MBTU

BAGHOUSE

1.1000 LB/MBTU

0.6% S COAL

NOX

0.2700 LB/MBTU

DESIGN & COMBUSTION PRACTICES

COAL & ASH HANDL SYSTEM

PM

NO LEAKS

BAGHOUSE

20.0000 % OPACITY

WET SUPPRESSION

VE

NOTES

NET EMISSION REDUCTION FOR TSP, THEREFORE BACT NOT REQUIRED.

... & BASIS

... PCT EFF

SIP

99.00

BACT

BACT

SIP

99.00

SIP

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS:

INITIAL REVIEW POST STARTUP

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ID NUMBER AL-0025

SOURCE TYPE CODE 7.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL

COMPANY NAME/SITE LOCATION FRITO-LAY

, CA

KERN COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. SEE NOTE

DETERMINATION MADE BY

KERN COUNTY APCD

(AGENCY)

TOM PAXSON

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/09/84

ESTIMATED DATE OF START-UP--

(805)-661-3682

(PHONE)

PROCESSES SUBJECT

TO THIS PERMIT

CORN CHIP FRYER

THROUGHPUT

CAPACITY

2500.00 LB/H

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS

... PCT EFF

PH 0.5000 LB/H

HIST ELIMINATOR SEPARATOR

BACT

TURBINE, GAS FIRED

6.00 MM

PH 0.8300 LB/H

SO2 0.0300 LB/H

LOW SULFUR OIL

NOX 13.7000 LB/H

H2O/STEAM INJECTION

BACT

BACT

BACT

NOTES

NOTE #1 -- PERMIT # 3082013 & 3082014, NOTE #2 -- DUCT BURNER FIRES OIL - 50" 10.1 LB/H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS:

PAGE G- 820

ID NUMBER CA-0085

SOURCE TYPE CODE 7.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL 243.00 MMBTU/H
 COMPANY NAME/SITE LOCATION GENERAL FOODS CORP. DOVER, DE

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 12/23/82
 PERMIT NO. APC 83/874 ESTIMATED DATE OF START-UP-- 1985
 DETERMINATION MADE BY DELEWARE DHR (302)-736-4791
 (AGENCY) HUGH HENCHI (PHONE)
 (AGENCY CONTACT PERSON)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED	243.00 MMBTU/H	SO2	3.0400 LB/MMBTU	
		PH	2% S COAL	
		NOX	0.1000 LB/MMBTU	
			ESP	
			0.7000 LB/MMBTU	99.00
			FURNACE DESIGN	

NOTES -----
 BACT FOR SO2 DETERMINED BY FUEL AVAILABILITY AND ECONOMICS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
 INITIAL REVIEW POST STARTUP
 REVIEW STATUS: 04/01/1983
 ID NUMBER DE-0005
 SOURCE TYPE CODE 7.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL

COMPANY NAME/SITE LOCATION GRIFFIN INDUSTRIES

NEWBERRY, IN

DETERMINATION IS BACT
PERMIT NO.
DETERMINATION MADE BY

INDIANA APCD
(AGENCY)

RICHARD WILLIAMSON
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE--
ESTIMATED DATE OF START-UP--
(317)-633-0663
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

BOILER, COAL FIRED

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

NOX 103.0000 T/YR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

ID NUMBER IN-0007

SOURCE TYPE CODE 7.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL

COMPANY NAME/SITE LOCATION HTC INDUSTRIES

SAN ANGELO, TX

TOM GREEN COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 8710

DETERMINATION MADE BY TEXAS ACB
(AGENCY)

GARY WALLIN
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/30/81
ESTIMATED DATE OF START-UP-- 1982
(512)-451-5711
(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

BATCH COCKERS, 6

8000.00 LB EA

ODOR 100.0000 ODOR UNITS

VENTED TO BOILER FIRE BOXES

99.00

GAS/OIL FIRED BOILERS, 2

500.00 HP

NOX 0.3000 LB/H
CO 3.3000 LB/H
PH 0.7500 LB/H
SO2 5.4000 LB/H

PLANT AIR FROM 6 BATCH COCKERS 100000.00 ACFH

ODOR 100.0000 ODOR UNITS

HORIZONTAL, CROSSFLOW SCRUBBER

90.00

NOTES

ONE BOILER IS FOR STAND-BY OPERATION ONLY. POLLUTANT EMISSION RATES ARE FOR ONE BOILER, FIRING 100% NO. 2 FUEL OIL.
ANIMAL BY-PRODUCTS MUST BE FRESH.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

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ID NUMBER TX-0093

SOURCE TYPE CODE 7.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL

COMPANY NAME/SITE LOCATION KERN PISTACHIO COOP.

, CA

KERN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. 3068002A
 DETERMINATION MADE BY KERN COUNTY APCD
 (AGENCY)

TOM PAXSON
 (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/25/84
 ESTIMATED DATE OF START-UP--
 (805)-861-3682
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT THROUGHPUT CAPACITY POLLUTANT EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF

MATL PROCESSING, DRYING & HULLING 48000.00 LB/YR

PM 0.0240 GR/SCF, CYC
 0.0084 GR/SCF, FIF.

CYCLONE & FABRIC COLLECTOR

NOTES -----
 SOURCE OPERATES 24 H/D, 7 D/WK, APPROX. 10 WKS/YR

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 09/01/1984

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE CODE 7.12

ID NUMBER CA-0082

APPENDIX -- DETAILED SOURCE LISTI'S

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL

COMPANY NAME/SITE LOCATION KNAPPEN VYLACTOS MOLASSES

ST. PAUL, MN

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 181-81-I-1

DETERMINATION MADE BY MINNESOTA PCA

(AGENCY)

JERRY LIEFERT

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/07/81

ESTIMATED DATE OF START-UP-- 1981

(612)-296-7272

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

DRYING DRUM

THROUGHPUT CAPACITY

14.50 T/H

POLLUTANT EMITTED

PM

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

1.9400 T/YR

PARALLEL CYCLONES & INCIN.

SETTLING CHAMBER SEPARATION CYC 37000.00 CF/H

FLUID BED CONVEYOR

7.50 T/H

PM

PM

BACT

96.00

... & BASIS ... PCT EFF

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP REVIEW STATUS: 04/01/1983

PAGE 6- 033

ID NUMBER MH-0005

SOURCE TYPE CODE 7.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL 12.00 MMLB/YR DRY MILK

COMPANY NAME/SITE LOCATION LAND O'LAKES INC. MOUNTAIN LAKE, MN

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
 PERMIT NO. 787U-81-I-1
 DETERMINATION MADE BY MINNESOTA PCA (AGENCY)
 JERRY LIEFERT (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE-- 10/08/81
 ESTIMATED DATE OF START-UP-- 1981
 (612)-296-7272 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SPRAY DRYER (MILK POWDER)	12.00 MMLB/H	PM	TRACE 1.0000 T/YR BAGHOUSE JET PULSE AIR CLEANING	BACT 99.80

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 7.12

ID NUMBER MN-0001

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL

COMPANY NAME/SITE LOCATION PACIFIC ADHESIVES COMPANY OF TEXAS

FORT WORTH, TX

TARRANT COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 6690A

DETERMINATION MADE BY TEXAS ACB (AGENCY)

GARY WALLIN (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/02/82
ESTIMATED DATE OF START-UP-- 1979
(512)-451-5711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

BLOOD DRYER, DRIED BLOOD HANDLI* 1300.00 LB/H DRIED *

PM

3.0000 T/YR

BAG FILTER

1300.00 LB/H DRIED *

BLOOD DRYER

ODOR

CYCLONE, VENTURI, PACKED SCRUBBER

99.00

90.00

NOTES -----

ORIGINAL PERMIT, 6690, WAS ISSUED TO A DIFFERENT OWNER ON 1/26/79. NO CHANGE IN POLLUTANT CONTROLS WAS REQUIRED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

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ID NUMBER TX-0097

SOURCE TYPE CODE 7.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

18.00 BALE/H

OTHER FOOD & AGRICULTURAL

SOURCE TYPE/SIZE

FRESNO, CA

PRODUCERS COTTON OIL CO.
1/2 MILE EAST OF LASSEN AVE.

COMPANY NAME/SITE LOCATION

DETERMINATION IS B/L FOR A MODIFIED SOURCE.

PERMIT NO. 1030042101

DETERMINATION MADE BY

FRESNO COUNTY APCD
(AGENCY)

WILLIAM RODDY
(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/20/80
ESTIMATED DATE OF START-UP-- 1981
(209)-445-3239
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

POLLUTANT
EMITTED

THROUGHPUT
CAPACITY

#2 CLEANER MOIST AIR FAN

0.0145 GR/SCF
1D-3D CYCLONE COLLECTORS

PM

18.00 BALE/H

MOTES ROBBER (2ND CUT)

0.0290 GR/SCF
1D-3D CYCLONE COLLECTORS

PM

18.00 BALE/H

MOTES

0.0007 GR/SCF
1D-3D CYCLONE COLLECTORS

PM

18.00 BALE/H

MOTES

0.0094 GR/SCF
1D-3D CYCLONE COLLECTORS

PM

18.00 BALE/H

WAGON SUCTION

0.0102 GR/SCF
1D-3D CYCLONE COLLECTORS

PM

18.00 BALE/H

NOTES

BOTH A BACT & A LAER DETERMINATION.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
SOURCE TYPE CODE 7.12

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.
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ID NUMBER CA-0041

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL 850.00 KW

COMPANY NAME/SITE LOCATION RALSTON PURINA, VAN CAMP SEAFOOD DIV.

PAGO PAGO, AS

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. AS 83-01

DETERMINATION MADE BY

EPA REGION IX

(AGENCY)

MATT HABER

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/06/83

ESTIMATED DATE OF START-UP-- 1983

(415)-974-8209

(PHONE)

PROCESSES SUBJECT

TO THIS PERMIT

I.C. ENGINE

THROUGHPUT

CAPACITY

850.00 KW

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

NOX 320.0000 PPM AT 15% O2

19.3600 LB/H 2H AV

... & BASIS

... PCT EFF

NOTES

THIS IS A NEW DIESEL ENGINE ADDED TO AN EXISTING CANNERY.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/19/1984

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ID NUMBER AS-0001

SOURCE TYPE CODE 7.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL 248.00 MBTU/H, 5, EA

COMPANY NAME/SITE LOCATION R. J. REYNOLDS TOBACCOVILLE, NC

DETERMINATION IS BACT FOR A NEW SOURCE.
 PERMIT NO.
 DETERMINATION MADE BY FORSYTH COUNTY ENV. AFFAIRS KEITH TART
 (AGENCY) (AGENCY CONTACT PERSON)
 DATE OF PERMIT ISSUANCE--
 ESTIMATED DATE OF START-UP--
 (919)-727-8060
 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY 248.00 MBTU/H EA

POLLUTANT EMITTED

EMISSION LIMITS

CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

BOILER, PULVERIZED COAL FIRED, 5	PH	0.0500 LB/MBTU	BAGHOUSE	BACT	99.50
	BE	0.0004 G/MBTU	BAGHOUSE	BACT	99.50
	FB	0.0009 G/MBTU	BAGHOUSE	BACT	99.50
	SO2	1.2000 LB/MBTU	BAGHOUSE	NSPS	99.50
	NOX	0.7000 LB/MBTU	LOW S COAL	NSPS	99.50
	F	0.0048 LB/MBTU	COMBUSTION CONTROLS	BACT	99.50
	HG	0.0030 G/MBTU		BACT	99.50
	CO	0.0370 LB/MBTU		BACT	99.50
	VOC	0.0110 LB/MBTU		BACT	99.50
ASH HANDLING	PH	0.0400 LB/T	BAGHOUSE	BACT	99.90
			H2O SPRAY		
UNLOADING COAL FROM RAIL CARS	FUG*	0.1100 GR/T	PARTIAL ENCLOSURE & CHEM. SPRAY	LAER	97.00
COAL STORAGE PILE	FUG*	0.0130 LB/T	STACKER/TELESCOPIC CHUTE/CHEM. STAB.	BACT	96.00

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: 04/01/1983

INITIAL REVIEW POST STARTUP

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ID NUMBER NC-0027

SOURCE TYPE CODE 7.12

(CONTINUED) R. J. REYNOLDS

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CIGARETTE MFG	37.50 T/H	PM	0.2500 LB/T	BACT
			BAGHOUSE & WET SCRUBBER	99.90
		FUG*	0.2100 LB/T	BACT
		VOC	11.6300 LB/T	
			PROCESS CHANGE	74.00
VEHICLE TRAFFIC	2275.00 VEH/D	FUG*	7.2000 LB/D	
			FLUSHING/SPEED REDUCTION/PAVING	28.00

NOTES -----
PSD APPLICATION IS BEING REVIEWED AT PRESENT AND NO PERMITS HAVE BEEN ISSUED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
SOURCE TYPE CODE 7.12

ID NUMBER NC-0027

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

302.60 MBTU/H

OTHER FOOD & AGRICULTURAL

WINSTON-SALEM, NC

R. J. REYNOLDS TOBACCO CO.
FOURTH & PATTERSON AVE

DATE OF PERMIT ISSUANCE-- 03/09/79
ESTIMATED DATE OF START-UP-- 1979
(919)-727-8060
(PHONE)

DETERMINATION IS BACT FOR A MODIFIED SOURCE.

PERMIT NO. 00405-0004-P
DETERMINATION MADE BY

FORSYTH COUNTY ENV. AFFAIRS KEITH TART
(AGENCY CONTACT PERSON)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

BOILER

302.60 MBTU/H

PH 0.1000 LB/HRBTU
ESP

SO2 1.2000 LB/HRBTU
LOW S FUEL

NOX 0.7000 LB/HRBTU
COMBUSTION CONTROLS

VE 20.0000 % CAPACITY
ES:

B/L
99.80

B/L

B/L

LAER
99.80

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

SOURCE TYPE CODE 7.12

ID NUMBER NC-0025

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL

COMPANY NAME/SITE LOCATION SALTER GRAIN & MILLING CO.

CA

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 6323

DETERMINATION MADE BY

KINGS COUNTY APCD

(AGENCY)

MARTIN KEAST

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/20/83

ESTIMATED DATE OF START-UP-- 1984

(209)-584-1411

(PHONE)

PROCESSES SUBJECT TO THIS PERMIT

THROUGHPUT CAPACITY

POLLUTANT EMITTED

EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS ... PCT EFF

COTTON GIN

800.00 BALES/D

PM

17.0000 LB/H CYCLONES

NOTES

STATE FILE # A370-034-83

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

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INITIAL REVIEW POST STARTUP

REVIEW STATUS:

ID NUMBER CA-0076

SOURCE TYPE CODE 7.12

APPENDIX -- DETAILED SOURCE LISTING

05/21/1985

SOURCE TYPE/SIZE OTHER FOOD & AGRICULTURAL

COMPANY NAME/SITE LOCATION ZALOOM BROTHERS, INC.

, CA

DETERMINATION IS BACT FOR A NEW SOURCE.

PERMIT NO. 3081001

DETERMINATION MADE BY

KERN COUNTY APCD

(AGENCY)

TOM PAXSON

(AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/24/84

ESTIMATED DATE OF START-UP-- 1982

(805)-861-8682

(PHONE)

PROCESSES SUBJECT
TO THIS PERMIT

THROUGHPUT
CAPACITY

POLLUTANT
EMITTED

EMISSION LIMITS
CONTROL EQUIPMENT OR PROCESS MODIFICATION

... & BASIS
... PCT EFF

PRECLEANER, HULLING & DRYING 300.00 T/D

PM 141.6000 LB/D

HIGH EFFICIENCY CYCLONE

96.00

40000.00 LB/D

PM

11.4000 LB/D

HIGH EFFICIENCY CYCLONE

90.00

FINISHING

NOTES

FILE NUMBER A370-033-084. PERMIT NUMBER 30810002

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS:

INITIAL REVIEW POST STARTUP

PAGE G- 642

ID NUMBER CA-0075

SOURCE TYPE CODE 7.12